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# **TARIFFS IN WORLD SEAFOOD TRADE**



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## **TARIFFS IN WORLD SEAFOOD TRADE**

by
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#### **ABSTRACT**

Given that more than half of world seafood exports originate in developing countries, an objective in the current round of negotiations in the World Trade Organization (WTO) is to reduce seafood tariffs. This paper examines tariffs for seafood in 169 countries, covering most of world trade, and 143 out of 148 WTO members. Average applied tariffs for seafood in each country are mostly spread out between 0 and 30 percent, with a median at 14 percent. Weighted by the economic size of importing countries, the world average is 8-10 percent. For WTO members, only 60 percent of tariffs for seafood are bound – i.e. subject to upper bounds negotiated in the WTO. Bound tariff averages for seafood mostly range from 0 to 60 percent, with a median at 34 percent. Hence there is a considerable amount of "water in the tariffs"; as an example, a 40 percent proportional cut in bound tariffs worldwide may lead to a cut in applied tariffs of only 9 percent. Seafood tariffs are higher than tariffs for industrial goods; this is especially the case for applied tariffs. There is some "tariff escalation" with higher tariffs for processed goods, but the evidence on this is ambiguous. Preferential tariffs are of increasing importance in many countries, but some of the richest countries have low tariffs for all suppliers and this reduces the impact of preferences. For the European Union, Japan and some developing countries, however, preferences are important. Poor countries have, on average, higher tariffs and a lower extent of tariff binding than rich countries. There is, however, great heterogeneity, so there are also free traders among the poorest.

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#### **ACRONYMS**

ACP African, Caribbean and Pacific Group of States

CIA Central Intelligence Agency

COMTRADE United Nations commodity trade statistics database

EFTA European Free Trade Association

EU European Union

FTA Free Trade Agreement

GATT General Agreement on Tariffs and Trade

GDP Gross domestic product

GNI Gross national income

GSP Generalized system of preferences

IDB Integrated database (WTO)

LDCs Least developed countries

MFN Most favoured nation

NAMA Non-agricultural market access

OCT Overseas countries and territories

PPP Purchasing power parity

TRAINS Trade analysis and information system database (UNCTAD)

TRQs Tariff rate quotas

UNCTAD United Nations Conference on Trade and Development

WITS World Integrated Trade Solution

WTO World Trade Organization

#### 1. INTRODUCTION: TARIFFS AND THE WTO NEGOTIATION ROUND

In the current round of trade negotiations in the World Trade Organization (WTO), the "Doha Development Agenda", tariff reductions for seafood are on the agenda. The Doha Round accounts for seafood trade in different ways; tariffs are probably the most important topic but subsidies and anti-dumping regulations are also of considerable interest.

In the WTO negotiations, seafood tariffs are negotiated along with manufacturing tariffs and non-tariff barriers in the so-called NAMA (Non-Agricultural Market Access) negotiating group. The WTO secretariat has provided useful overviews on tariffs for manufacturing and seafood taken together (see WTO, 2002a,b), but not for individual sectors. The purpose of this paper is to fill this gap, by providing a comprehensive overview of seafood tariffs. For illustrative purposes, we also present some calculations concerning tariff reductions.

In the WTO negotiations, the core approach to tariff reduction is a formula that is to be negotiated and thereafter applied to individual tariff lines (or tariff averages, in some proposals). In addition, it has been suggested that tariffs should be eliminated completely for sectors of particular interest to developing countries. In 2003, seven particular sectors were suggested for such treatment. The proposal presented (see WTO, 2003a) was as follows:

"In addition to the application of the formula, a sector elimination approach is proposed in order to eliminate and bind all tariffs on products of particular export interest to developing and least-developed country participants. Therefore, the following sectors are proposed: Electronics & Electrical goods; Fish & Fish products; Footwear; Leather goods; Motor Vehicle parts & components; Stones, Gems, & Precious Metals; and Textiles & Clothing."

Hence seafood is included among the seven sectors of particular interest to developing countries. As shown by Vannuccini (2003), developing countries now represent more than half of world exports of seafood, and the sector is important in the exports of developing countries (see also Roheim, 2005). According to Melchior (2004), the seafood sector deserves its position among the priority sectors for developing countries. Not only is the developing country share of world exports relatively high for seafood; seafood exports are also dispersed among many developing nations. Among the seven sectors suggested above, seafood is also the one where the least developed countries (LDCs) share is highest (ibid.).

To date there has not been a decision in the WTO negotiations regarding whether sectorial tariff elimination will be undertaken, or whether seafood will be among the chosen sectors. It seems likely that the tariff-cutting formula will be the most important element of tariff liberalization.

Ideally, we need an analysis of how tariff reforms will affect production and trade worldwide. This big task is, however, beyond the scope of this paper. The purpose here is to undertake a comprehensive mapping and assessment of the pattern and level of tariffs. We will ask questions such as:

- What are tariffs levels in different countries and overall, and do rich and poor countries have different tariff levels?
- To what extent are bound tariffs higher than the applied ones, and what is the role of preferential tariffs?
- Are tariffs for seafood higher than tariffs in other sectors?
- Is there tariff escalation so that tariffs are higher for more processed goods?

We will examine these issues using a comprehensive data set covering virtually all of world trade.

Earlier work addressing seafood tariffs include Finger, Ingco and Reincke (1996), who presented calculations for 40 countries after the Uruguay Round (UR). The authors found a trade-weighted

average of bound tariffs after the UR at 5.2 percent for fish and fish products, and a corresponding figure at 4.4 percent for most favoured nation (MFN) applied tariffs. According to FAO (2003), "average weighted import tariffs on fish products in developed countries were reduced to around 4.5 percent" after the UR. These figures are strongly affected by the large share of world imports accounted for by the European Union (EU), Japan and the United States of America, and they hide that the majority of countries in the world in fact have much higher seafood tariffs. As we shall see, the figures are also affected by the country coverage. Adding more countries tends to increase the average, since the rich low-tariff countries were among the first to submit their data.

#### 2. DATA AND METHODOLOGY

Table A1 in the Appendix presents the study's product coverage. Most of the analysis is undertaken for seafood as a whole, but in section 9 we also present some evidence for various subcategories (definition shown in Appendix). According to Table A1, world seafood trade in 2003 was at US\$75 800 million, with 52 percent being exported from low and middle income countries.

This analysis would not have been possible without the great improvements in the accessibility to tariff and trade data. For the purpose of the analysis, we use five different databases:

- Commodity trade statistics database of the United Nations (COMTRADE) is used to obtain trade data.
- The trade analysis and information system database (TRAINS) of the United Nations Conference on Trade and Development (UNCTAD) is used for retrieving tariff data, and also some import data.
- The integrated database (IDB) of WTO is used to get tariff data.
- The Fishstat+ database of FAO is used to obtain supplementary information on fish production and trade.
- The World Development Indicators of the World Bank is the main source of supplementary country data, e.g. on income levels.

The first three of these databases are accessible using the software WITS (World Integrated Trade Solution), developed jointly by the World Bank and the United Nations Conference on Trade and Development (UNCTAD). TRAINS as well as IDB contain data on:

- bound tariffs, i.e. upper bounds for tariffs that are negotiated in the WTO and fixed in country tariff schedules, and
- MFN applied tariffs, i.e. the tariffs applied to countries without any form of trade preferences.

As we shall see, bound tariffs are on average considerably higher than the applied ones for seafood.<sup>2</sup>

In addition to bound and MFN applied tariffs, TRAINS also contains some data on preferential tariffs; e.g. tariffs under the generalized system of preferences (GSP) or in free trade agreements.

The World Integrated Trade Solution (WITS) simplifies data retrieval to a considerable extent, since data for predefined aggregates may be requested (instead of obtaining more detailed data and undertaking all the calculations oneself). In order to avoid mistakes, it is however necessary to check thoroughly the data underlying WITS output. For example, we obtained some tariff averages from WITS that were based on traded items only, i.e. with very limited data coverage for some countries that might give very misleading results. In order to control this, we have also used detailed data and checked the underlying data coverage behind all figures.

<sup>&</sup>lt;sup>2</sup> Countries are free to change their MFN applied tariffs as long as they are below the bound rates; hence MFN applied tariffs may vary across years. In most cases, such variations imply that countries reduce their applied tariffs, but in some cases, the opposite may be true.

TABLE 1: Properties of the tariff data

	Observations			Share ( p	Share ( percent) of observations			
	Bound	MFN applied	Actually applied	Bound	MFN applied	Actually applied		
Number of countries covered by tariff data	145	145	130	100	100	100		
Data source								
IDB	27	29	0	18.6	20.0	0.0		
TRAINS	118	116	130	81.4	80.0	100.0		
WTO membership								
WTO members	119	119	105	82.1	82.1	80.8		
Not WTO members	26	26	25	17.9	17.9	19.2		
Data vintage								
2000	2	2	2	1.4	1.4	1.5		
2001	8	7	16	5.5	4.8	12.3		
2002	28	27	24	19.3	18.6	18.5		
2003	26	27	29	17.9	18.6	22.3		
2004	65	66	51	44.8	45.5	39.2		
2005	16	16	8	11.0	11.0	6.2		
Classification system								
HS system, 1988/1992 version	6	6	6	4.1	4.1	4.6		
HS system, 1996 version	48	48	55	33.1	33.1	42.3		
HS System, 2002 version	91	91	69	62.8	62.8	53.1		
Share ( percent) of the world total covered by	countries in ta	riff data, for o	different varia	bles				
Variable*				Bound	MFN applied	Actually applied		
World merchandise exports 2002				98.8	98.8	95.4		
World merchandise imports 2002				98.8	98.8	95.5		
World population 2002				97.8	97.8	96.6		
World GNI (gross national income) 2002				99.8	99.8	99.2		
World GDP (gross domestic product) 2002				99.6	99.6	99.0		
World GDP (PPP), 2002				99.3	99.3	98.7		

<sup>\*</sup> Note: Data are from the World Bank's World Development Indicators 2004, supplemented by data from the Central Intelligence Agency (CIA) World Factbook for missing observations.

Data coverage for preferential tariffs is less comprehensive, but we shall nevertheless present some evidence. We shall use the term "actually applied" for these tariffs.

All the tariff calculations undertaken here are based on *ad valorem* tariff rates; i.e. tariffs expressed as a percentage of the value of goods.<sup>3</sup> We generally report the number of observations for the tariff averages calculated, and we do not present results that are based on a very limited number of observations.

In the TRAINS and IDB databases, tariffs for each country are available for different years; frequently with gaps between the years covered. If we chose to use one year only, the number of country observations would be strongly reduced. Since the purpose is to obtain a comprehensive assessment of worldwide tariffs for seafood, we choose to use, for each tariff type (bound, MFN applied and actually applied), the *latest available observation since 2000*. In this way, we obtain information for 145 countries on bound and MFN applied tariffs, and for 130 countries on actually applied tariffs. Table 1 shows some properties of the data. The EU is counted as one observation; hence the number of countries covered is actually 169 for bound and MFN applied tariffs. Hence the data coverage is high.<sup>4</sup>

Hence more than 80 percent of the data are from TRAINS, 68–75 percent of the observations are from 2003 or later, and 97.8-99.8 percent of the world total is covered for bound and MFN applied tariffs – a bit less but still above 95 percent for actually applied tariffs. Counting the EU

<sup>&</sup>lt;sup>3</sup> On specific tariffs, see comments later.

<sup>&</sup>lt;sup>4</sup> From the data retrieved, we deleted 40 observations from before 2000, 50 observations for countries that became EU members in 2004, and 182 other observations that were not the most recent ones. In a few cases, the latest available observation in IDB and TRAINS coincide, and in these cases we generally used the TRAINS observations since they also provide import-weighted averages.

as 25 instead of one, the total number of countries covered increases to 169, and we see that 143 WTO members (at the time of writing) are covered for bound and MFN applied tariffs; i.e. only five WTO members are missing.

The table also shows that most of the data are using the 1996 or 2002 versions of the Harmonized System. HS is an international standard of classification down to the 6-digit level of classification. At this level, seafood – as defined in Table A1 in the Appendix – includes 106 categories in HS 1988/92 and HS1996, and 113 in HS2002.

TABLE 2: How EU's tariff average for seafood depends on the level of aggregation (MFN applied tariffs for 2005)

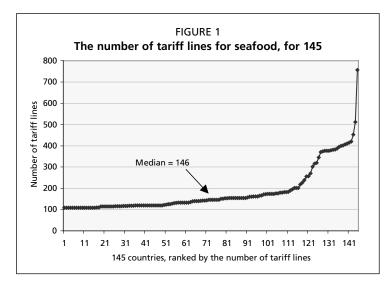
Classification level, HS 2002	Number of tariff lines	Simple tariff average
EU's customs tariff, 10/12 digits	757	11.82
10 digits	718	11.88
8 digits	377	10.61
6 digits	113	9.98

Note: Based on EU tariff data for 2005 from TRAINS.

The classification of goods is only harmonized internationally to the level of detail corresponding to 6 digits. Many countries have more detailed national classifications; frequently at the 8-digit level. An issue is whether simple tariff averages are affected by classification. If, for example, a 6-digit category with high protection is subdivided into numerous tariff lines, it will affect the simple tariff average upward. As an illustration, consider simple averages for the EU at different levels of aggregation, for EU's MFN applied tariffs in 2005. This is shown in Table 2.

Hence the tariff average drops by almost two percentage points as we approach the 6-digit level. EU is however an extreme case; other countries generally have fewer tariff lines.

Figure 1 shows the number of tariff lines at the national level, according to our data on MFN applied tariffs.



Hence around 50 countries have few sub-divisions beyond the 6-digit level (with 106 or 113 categories), and the majority of countries have less than 200 tariff lines. Some countries, however, have detailed sub-divisions; with EU on top and Tunisia as number two with more than 500 tariff lines for seafood.

The analysis undertaken here is based on tariff averages at the internationally common 6-digit level. Using WITS, we also derive tariff line averages that are shown

in Appendix Table A2 for comparison. We also undertake our own calculations based on (precomputed) tariffs at the 6-digit level, retrieved from TRAINS and IDB using WITS. After our data screening, we obtain a data file with 38447 observations at the 6-digit level, which is used for the various checks and calculations.

In Table A2 in the Appendix, we show four different tariff averages in each case, when available:

- Simple averages at the tariff line level.
- Simple averages at the HS 6-digit level.
- Import-weighted averages.
- Averages weighted by world imports in 2003 of each 6-digit category.

It is well known from the literature that import-weighted averages may be biased because imports, and thereby the weights, are affected by the tariffs. Say, for example, that tariffs are zero for some items, and 1 000 percent for the rest. If there are no imports of the latter, the trade-weighted average will be zero – which is clearly misleading. In order to avoid this, but still take into account the economic magnitude of categories, we also present averages for each country that are weighted by world imports, or equivalently world exports, of the categories in question.

Table 3 shows the extent of correlation for MFN applied tariffs, for the four types of tariff averages.

The simple averages at the tariff line level and 6-digit level show extremely high correlation; suggesting that the classification level is not as important as the EU example suggests. The import-weighted averages deviate most strongly from the rest; with world import-weighted averages as an intermediate case. Regression analysis also suggests, as we would

TABLE 3: Correlations between different types of tariff averages

	Simple average at HS 6-digit level	Import- weighted average	Average weighted by world imports
Simple average at the tariff-line level	0.998	0.824	0.921
Simple average at HS 6-digit level		0.820	0.924
Import-weighted average			0.741

Note: 118 observations for import-weighted averages, and 145 for the other three. The results are Pearson correlation coefficient, all significantly different from zero at the 1 percent level.

expect, that the trade-weighted averages are on average systematically lower than the simple averages.<sup>5</sup> This suggests that the import-weighted averages may be downward biased. The averages weighted by world trade are however not systematically higher or lower than the simple averages. When presenting the results in the following, we generally rely in the simple averages at the 6-digit level.

We know exactly how many 6-digit observations there should be if the data were complete. For bound tariffs, we only have tariff observations if the tariffs are actually bound, and this information is available in the data. Some observations are however missing; in fact on average 2.3 percent of the 6-digit categories for bound rates, and 3.6 percent for MFN applied rates. One reason for missing rates is the presence of specific tariffs, i.e. tariffs not expressed as a percentage of the value but as an amount per quantity unit (WTO, 2003b, 2005). This is important for some countries such as e.g. Switzerland, Thailand and Israel. In the data, we do not have an exact count of categories with specific tariffs. We know, on the other hand, that 2.6-2.8 percent of total seafood imports were subject to specific tariffs. It is likely that specific tariffs explain a considerable part of the missing tariff observations. Tariff data may however also be missing for other reasons that we have no information about. On the whole, the problem with missing data is nevertheless limited for bound and MFN applied tariffs.

For "actually applied" tariffs, data coverage is more severely limited: Due to limitations in the WITS software, we only get tariff data for *traded* items. As a consequence, the data coverage is on average only 43.9 percent, compared to 96.4 percent for MFN applied. For this reason, the tariff averages for actually applied tariffs in Table A2 are of more limited value. In this case, the tradeweighted averages nevertheless provide some information that we may use, since they do not suffer from the lack of information on non-traded lines.

In several cases, we have data from TRAINS and IDB for the same country/duty type, and sometimes also for the same year, and these should be close or identical unless there is a specific explanation. This is mostly the case, but there are a few cases where there are discrepancies. In some

<sup>&</sup>lt;sup>5</sup> On average, the import-weighted averages are 14 percent lower than the simple averages, according to the regression analysis. The difference is statistically significant.

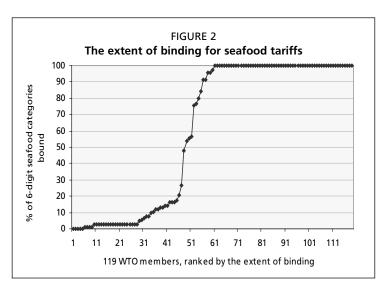
<sup>&</sup>lt;sup>6</sup> For example, according to the retrieved IDB data, MFN applied tariffs for seafood for Argentina and China in 2004 should be zero and 54 percent, respectively, while TRAINS data tell that they are 11.6 and 11.5 percent. In these cases, we use TRAINS, although we did not undertake further data checks.

cases, there are plausible explanations. For example, the MFN applied tariffs of Albania in 2001 are higher than the bound tariffs; this is because the reported bound tariffs were to be implemented over time. In other cases, we do not have obvious explanations about data inconsistencies, and there is still more to do with respect to data verification. In the whole, however, we consider the data to be of good quality.

#### 3. THE EXTENT OF TARIFF BINDING

Figure 2 shows the share of seafood tariffs bound, at the 6-digit level, for the 119 WTO members in our data set (143 if EU is counted as 25). By definition tariffs are unbound for non-members of the WTO.

Around half (59 members) have bound 100 percent, while 45 members have bound less than 20 percent. Hence there are few countries in the intermediate range. The simple average for all 119 observations is 60.5 percent.



Which countries have bound their tariffs? Table 4 shows the average share bound at different income levels:

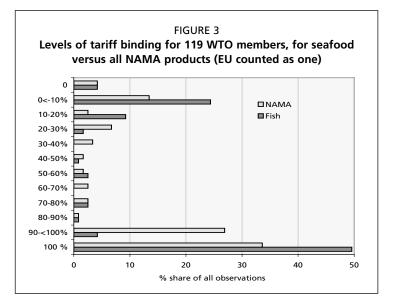
There is a clear, although not monotonous, relationship. Low-income countries have fewer bindings, whereas high-income countries have the highest average.

The upper middle income group, however, deviates from the pattern – and we shall see throughout the paper that this applies to tariffs generally.

The extent of binding for seafood is somewhat lower than for other goods. For all goods covered by the NAMA (non-agricultural market access) negotiations at the WTO, the simple average is 69.4 percent. Figure 3 compares the level of binding for seafood with the level of binding for all NAMA goods, for WTO members.<sup>7</sup> Here we have split the observations into

TABLE 4: Tariff binding and income levels

	Percent of 6-digit items bound for seafood
High income (19)	79.0
Upper middle income (22)	60.7
Lower middle income (36)	71.0
Low income (42)	43.1
All WTO members covered (119)	60.5



We use the WITS definition of NAMA goods, including at the 6-digit level HS 30110-30799, 50900, 150410-30, 160300-160590, 230120, 250100-290542, 290549-321590, 330210-340700, 350610-380890, 380991-382310, 382320-382350, 382390-382450, 382471-401700, 410410-420690, 430211-491199, 500400-500790, 510400-511300, 520411-521225, 530310-970600.

deciles, plus zero and 100 as separate categories, and we calculate the share of countries in each decile.

Although more countries have 100 percent binding for fish than for all NAMA trade, the share below 10 percent is clearly larger for seafood.

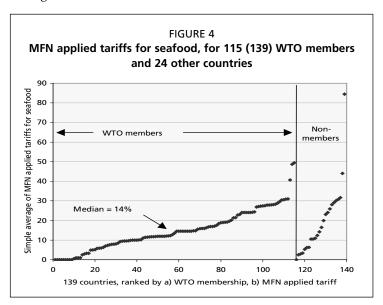
#### 4. TARIFF LEVELS FOR SEAFOOD: BOUND VS. MFN APPLIED TARIFFS

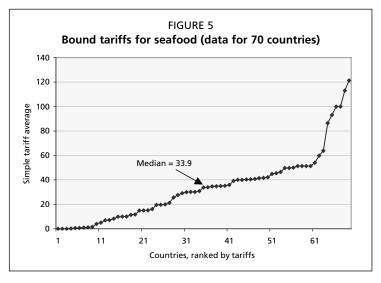
Figures 4 and 5 show the distribution of tariff averages across countries, for bound and MFN applied tariffs. For bound tariffs, we have – by definition – only data when tariffs are bound. For countries with few bindings, the number of observations is low and the tariff average is less "reliable". For presenting the results, we only include countries where we have data for more than 50 percent of the tariff lines. Using this rule, we obtain 70 observations for bound tariffs. For MFN applied tariffs, data coverage is below 50 percent for six observations, so we present 139 countries. In Figure 4, we distinguish between WTO members and others.

Except for some outliers with very high tariffs, there is a regular pattern: Average MFN applied tariffs are rather evenly spread in the range 0-30 percent, and average bound tariffs are spread out in the range 0-60 percent. The median is 14 percent for applied tariffs, and 34 percent for bound tariffs. As shown below, the simple average is close to the median.

An issue is whether the medians give a "representative" picture of world seafood tariffs. For some purposes, we could say yes. For example, in the WTO negotiations, all countries are at least formally equal, so the picture above gives a true picture of the tariff range in negotiations. With respect to the economic impact of tariffs, on the other hand, it would not be appropriate to give the same weight to all countries. For example, the EU, United States and Japan in 2002 represented together 75 percent of world seafood imports (EU-25 36.4 percent, Japan 22.3 percent, United States 16.4 percent). These countries have tariffs below the world average, and averages weighted by imports or economic size tend to be lower than the simple averages or medians.

There is no "true" method of weighting and all methods have their shortcomings. Weighting by seafood imports may underestimate tariffs since countries with high tariffs have less imports and therefore count less.





Weighting by gross domestic product (GDP) may solve this problem, but differences in demand are then neglected. All forms of weighting based on current economic activity may also underestimate the significance of tariffs in the longer run; India's economic size is currently small relative to its share of the world's population, but the country grows rapidly so this may change over time.

Based on these considerations, we show averages with different weights. We use alternatively as weights (a) population, (b) gross national income (GNI) in current US\$, (c) GDP in purchasing power parity (PPP) dollars, and (d) fish imports. We show results for the whole sample as well as different income groups. For the latter purpose, we use the World Bank's classification of income groups.

Table 5 shows the results for bound as well as MFN applied tariffs, In order to understand the results, it is useful to observe the shares of different income groups in population, income etc., and this is therefore also shown at the bottom of the table.

As shown at the bottom of the table, high-income countries account for 88 percent of fish imports, 83 percent of current GNI, 59 percent of real income (GDP; PPP), 17 percent of population and 15 percent of the countries in the 140-country sample. Hence their weight is highest for the "nominal" measures of economic size (current GNI, fish imports) are used. Since rich countries have also bound their tariffs to a larger extent, the corresponding shares are even higher for the 70-country sample for bound tariffs.

For bound tariffs, "nominal" economic weights such as imports or current GNI give a world average at only 8 percent – or less than 1/4

**TABLE 5: World averages for seafood tariffs** 

	Bound	tariffs (70 co	untries)					
Income group	Simple	Weighted by:						
	average	Population	GNI, current US\$	GDP, PPP US\$	Fish imports			
High income (15)	12.4	7.3	5.8	6.3	7.1			
Upper middle (14)	42.9	30.8	31.6	30.5	20.7			
Lower middle (25)	31.6	19.6	21.5	19.7	16.1			
Low income (16)	51.0	64.5	59.6	57.0	57.4			
World (70)	34.2	19.3	8.1	11.1	8.0			
Observations	70	70	67	70	67			
MFN applied tariffs (140 countries)								
Income group	Simple		Weighted	Weighted by:				
	average	Population	GNI, current US\$	GDP, PPP US\$	Fish imports			
High income (21)	5.2	7.6	5.7	6.6	7.3			
Upper middle (24)	18.7	17.0	18.1	16.3	12.6			
Lower middle (43)	16.3	13.3	14.7	13.7	12.2			
Low income (51)	17.8	25.4	26.8	26.9	22.2			
World (140)	15.6	16.9	7.7	10.8	8.1			
Observations	140	140	128	140	136			
		Memo item:						
Share of ea	ch income g	roup in world	d total for 140	countries				
	Number of countries	Population	GNI, current US\$	GDP, PPP US\$	Fish imports			
High income (21)	15.0	17.1	82.7	59.1	88.1			
Upper middle (24)	17.9	4.3	4.0	4.9	2.0			
Lower middle (43)	30.7	42.2	10.5	26.8	8.3			
Low income (51)	36.4	36.5	2.7	9.3	1.6			

100

100

100

100

of the median. Hence the high-tariff developing countries are economically small, so the world average is strongly affected by the rich countries.

100

World (140)

Since MFN applied tariffs are generally lower than bound tariffs, the MFN applied average should be below the bound average. However, the addition of 70 more countries in the sample tends to increase the tariff level, since these include more protectionist countries that have higher applied tariffs. Also in this case, the large economic weight of rich countries has a strong influence. As

<sup>&</sup>lt;sup>8</sup> Income data are from World Bank: World Development Indicators 2004, supplemented by data from CIA World Factbook. Fish import data are from FAO's database Fishstat+. Data for 2002 are generally used, due to greater coverage. Countries were deleted from the sample when less than 40 percent of the tariff lines were covered by the data resulting in the samples of 70 (bound) and 140 (MFN applied) countries.

See http://web.worldbank.org/WBSITE/EXTERNAL/DATASTATISTICS/0,,contentMDK:20420458~menuPK: 64133156~pagePK:64133150~piPK:64133175~theSitePK:239419,00.html

a result, the weighted world average is almost the same as for bound tariffs; at 8 percent if we use "nominal" measures. The similarity between bound and applied averages should not be erroneously interpreted in the sense that bound and applied tariffs are approximately equal. As shown in Figures 4 and 5, this is generally not true, and we shall provide more specific evidence in Section 6.

If we use "real" (price level adjusted) PPP measures of income, the world tariff average increases by three percentage points, to 11 percent. And if we weight by population, the average increases to 19 percent for bound and 17 percent for MFN applied tariffs.

We expect that the average weighted by fish imports should be lower than e.g. GDP-weighted figures, due to the standard "weighting bias": Countries with high tariffs have little imports so their weight is reduced. Comparing with GNI/GDP-weighted averages, our expectation is fulfilled in 11 out of 12 cases for developing countries. The weighting bias is therefore an issue particularly for countries with relatively high tariffs.

For high-income countries, the weighted averages for MFN applied tariffs are higher than the simple average. The reason is mainly that the EU has tariffs above the average for the group (simple MFN applied average for the EU is 11.7 percent). A similar effect is present for low-income countries, where India has relatively high applied tariffs and this raises the weighted average for the group.

While it is true that income and tariff levels are correlated, the upper middle income countries stand out with higher tariffs than we would expect from this ranking.<sup>10</sup>

The analysis shows that there is not a single true measure for the world tariff average for seafood. In the WTO context, it is appropriate to think of average bound tariffs above 30 percent, but for measuring the actual burden of tariffs faced by importers, figures around 10 percent are more appropriate.

In the calculations above, we have not accounted for preferential tariffs, which may bring tariffs below the MFN applied level. We revert to these in Sections 7 and 8.

#### 5. ARE SEAFOOD TARIFFS HIGHER THAN TARIFFS FOR OTHER GOODS?

Are seafood tariffs higher than tariffs for other goods? If we compare seafood and all NAMA goods (non-agriculture), the answer is affirmative, especially for MFN applied tariffs. Figures 6 and 7 plot the tariff average for seafood in each country against the tariff average for NAMA goods, for bound and MFN applied tariffs respectively. In each Figure, we show the 45 degree line; below this, the seafood tariffs are highest.

In the Figures, we also show regression lines; if the coefficient on X is significantly different from one, there is a systematic deviation from the 45-degree line. In both cases, more than half of the observations are below the 45 degree line, and there is in fact a statistically significant relationship showing that seafood tariffs are on average higher.<sup>11</sup> The relationship is however barely significant for bound rates, but strongly significant for MFN applied rates. Hence for MFN applied tariffs, it is clearly the case that seafood tariffs are higher than tariffs for manufactured goods.

<sup>10</sup> It is easily confirmed that the (negative) correlation between tariffs and income levels is statistically significant.

<sup>&</sup>lt;sup>11</sup> The standard deviation for the x coefficient is at 0.044 for bound rates, and 0.036 for MFN applied rates. For bound rates (Figure 6), the simple average is 34.2 percent for fish, and 30.6 percent for NAMA. For the MFN applied rates in Figure 7, the averages are 15.6 for fish and 10.6 percent for NAMA.

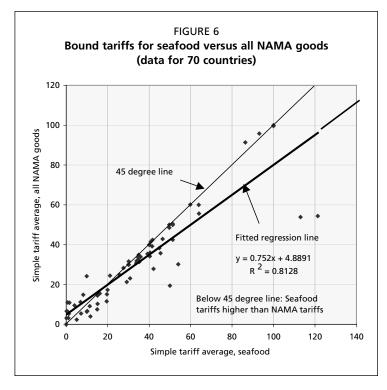
Even if it is *on average* true that seafood tariffs are higher than the NAMA tariff average, this is not always true. For some countries, the situation is the opposite. This appears clearly in Figure 8, which shows the ratio between the seafood tariff average and the tariff average for NAMA goods. If this ratio is one, the levels are equal. Higher values indicate that seafood tariffs are higher.<sup>12</sup>

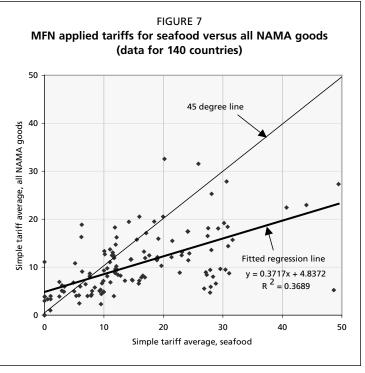
Figure 8 shows that in some countries, seafood is more liberally treated than industrial goods. The majority of observations have nevertheless values above 1; confirming our results above. For bound tariffs, the similar Figure (not shown) is more symmetrical—with observations close to one in the middle.

#### 6. "WATER IN THE TARIFFS"

While attempts have been made in the current WTO negotiations to undertake binding commitments on reduction of non-bound tariffs, the classical approach is to negotiate on binding and bound rates only, and leave the applied rates to the countries' own discretion. It is likely that reductions in bound tariffs will also be the main pillar of tariff liberalization in the current round.

If there are large gaps between bound and applied tariffs, however, bound rates may be cut considerably without affecting applied rates very much. In the insider jargon, this is called "water in the tariffs".





For an individual tariff line, consider an example where the bound rate is 34 and the applied rate is 14, as our median values above. In this case, the bound rate has to be reduced by more than 59 percent in order to affect the applied rate.

<sup>12</sup> The ratio has been set at one in cases where both tariff averages were zero.

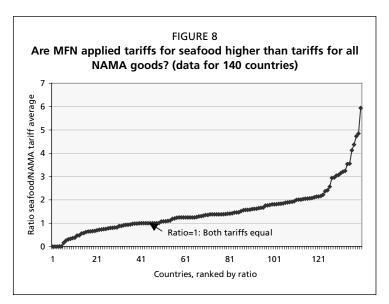
In order to illustrate how this "water effect" could affect seafood more realistically, we undertake calculations where bound rates are reduced according to various formulas, based on real data at the 6-digit level. We show the following cases:

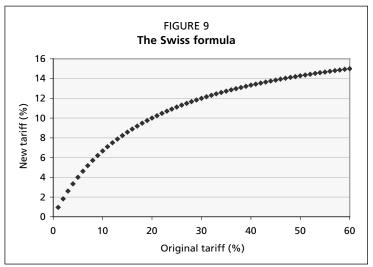
- A proportional tariff cut, so that every bound line is cut by a certain percentage. We use 30 or 40 percent, alternatively, as illustrations.
- Secondly, we illustrate the impact of a so-called Swiss formula, with coefficients 10, 20 or 30.

The Swiss formula has the form

$$t_1 = \frac{A \times t_0}{A + t_0}$$

where t<sub>0</sub> is the original tariff, t<sub>1</sub> is the new tariff, and A is a coefficient to be negotiated. The Swiss formula is non-linear by cutting larger tariffs relatively more than low tariffs. Figure 9 illustrates this with A=20.





Hence a 60 percent tariff is cut to 15 percent, and a 20 percent tariff is cut to 10 percent. The Swiss formula is therefore "progressive" in its non-linearity, by cutting high tariffs relatively more. It is easily seen that if the original tariff is very large,  $t_1$  approaches A, so A (in this case 20) is in fact an upper bound for the new tariff. This is why the curve flattens out as we move to the right in the Figure.

Several modifications of the Swiss formula have been suggested in the current WTO negotiations, e.g. with different A's for rich and poor countries, or with A's that depend on current tariff averages. <sup>13</sup>

In Table 6, we show to what extent MFN applied rates will be affected by cuts in the bound rates, for all 6-digit items where we have observations on bound as well as applied rates. We only report results for countries with at least 40 observations (the maximum is 106 or 113), rendering a data set with 66 countries. The results for each country are shown in Tables A3 and A4 in the Appendix. Observe that in Table 6 below, we use simple averages across countries, so small and large countries have the same weight. We show results for all countries on average, and for countries in different income ranges – given the focus on development in WTO negotiations.

<sup>&</sup>lt;sup>13</sup> See e.g. WTO (2003a).

TABLE 6: The impact of "water in the tariffs" for the reduction of seafood tariffs

		Income groups						
	High	Upper middle	Lower middle	Low	All countries			
Number of countries covered	15	13	22	16	66			
Bound average, before tariff cut	12.3	44.6	33.5	51.6	35.3			
MFN applied average, before cut	2.4	17.4	14.5	15.3	12.5			
Formula		Bound	average, after ta	riff cut				
30% proportional cut	8.6	31.2	23.4	36.1	24.7			
40% proportional cut	7.4	26.8	20.1	30.9	21.2			
Swiss formula with A=30	5.3	15.6	15.0	17.1	13.4			
Swiss formula with A=20	4.4	12.1	11.9	13.0	10.5			
Swiss formula with A=10	2.9	7.3	7.3	7.6	6.4			
Formula		Average percent reduction in bound average						
30% proportional cut	26	30	30	30	29			
40% proportional cut	35	40	40	40	39			
Swiss formula with A=30	26	55	52	62	49			
Swiss formula with A=20	32	63	61	71	57			
Swiss formula with A=10	44	76	75	82	70			
Formula		MFN applied average, after tariff cut						
30% proportional cut	1.8	16.4	13.6	15.1	11.8			
40% proportional cut	1.6	15.5	12.8	15.0	11.3			
Swiss formula with A=30	1.8	12.6	11.5	13.1	9.9			
Swiss formula with A=20	1.6	10.5	10.0	11.0	8.4			
Swiss formula with A=10	1.3	6.7	6.8	7.0	5.6			
Formula		Average percent	reduction in MFI	l applied average	e			
30% proportional cut	9	6	6	2	6			
40% proportional cut	13	11	10	3	9			
Swiss formula with A=30	7	21	15	12	14			
Swiss formula with A=20	9	31	24	25	22			
Swiss formula with A=10	14	52	46	50	41			

Hence a 40 percent proportional cut in bound tariffs lead to a reduction in applied tariffs of only 9 percent on average! The Swiss formulas lead to stronger tariff cuts, but even the radical option of a Swiss formula with A=20, reducing any tariff to a level below 20 percent, leads to a cut in applied tariffs of 22 percent only. In order to obtain a radical cut in tariffs, an even lower A is required.

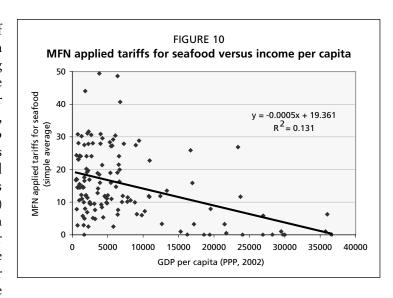
Observe that 2/3 of the high-income group – i.e. 10 out of 15 in the sample used here – have zero MFN applied tariffs for fish, and this is the reason why the average reduction in the MFN applied rates is rather low for the richest countries.

Considering that on average, poor countries have higher tariffs, a suggestion in the current WTO negotiations has been to use the tariff average as an element in the tariff-cutting formula. The idea was that poor countries have higher tariffs, and their tariff averages could be used to define the "A" in the Swiss formula so that tariff cuts would be lesser for them. An issue related to this proposal was, in particular, that there is great heterogeneity between developing countries. While the correlation between tariffs and income holds on average, it does not explain a very high share of the variation in tariffs. This is illustrated in Figure 10, which plots MFN applied tariffs for seafood against per capita income.<sup>14</sup>

As shown by the trend line, there is a significant correlation. The explained variation of the regression is however only 13 percent, and there is considerable variation between countries at similar income levels – especially among poor countries.

<sup>&</sup>lt;sup>14</sup> Data source, income data: as in Table 4.

This heterogeneity was one of the reasons for opposition against the proposal of using the tariff average to define the "A" in the formula. For the poor countries with very low tariffs, this would lead to very sharp tariff cuts even if these countries had already made substantial liberalization. Negotiations are currently (November 2005) gravitating towards a solution with common A's for broader groups of countries (e.g. one "A" for developed, another for developing countries).15 Observe



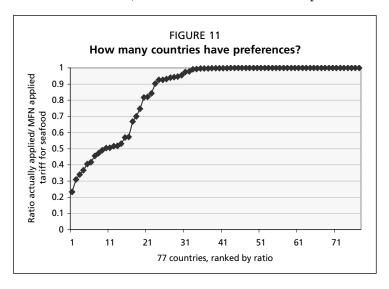
that in the WTO negotiations, the least developed countries (LDCs) are likely to be exempted from formula cuts in tariffs, so the discussion above does not apply in that case.

#### 7. TARIFF PREFERENCES: THE GLOBAL PICTURE

The analysis so far has focused on bound and applied MFN tariffs, i.e. tariffs applying to countries without any form of trade preferences. With preferences, however, applied tariffs may be even lower. It is well known that the number of free trade agreements (FTAs) is considerable and has proliferated in recent years. According to the recent overview by Crawford and Fiorentino (2005), 116 FTAs in goods trade have been notified to the General Agreement on Tariffs and Trade (GATT)/WTO during the last 15 years, i.e. 1990–2005 (see also Melchior, 2003). In addition, there are tariff preferences

for developing countries under the GSP (Generalized System of Preferences) (see e.g. Hoekman and Özden, 2005; OECD, 2005; UNCTAD, 2003; or Melchior, 2005 for overviews). Our purpose here is not to provide an overview of this process, but to give some indications about its quantitative impact on seafood tariffs.

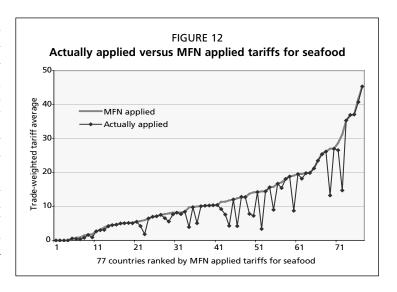
A complete analysis of preferential tariffs for seafood is however beyond the scope of this study. Due to limitations in the WITS software, the data we obtain on "actually applied" tariffs from



TRAINS only covers *traded* lines. It is however only for large traders such as the United States and the EU that all the 106/113 categories are traded. For smaller countries, the number can be limited. In fact, the average number of observations in our data for "actually applied" tariffs is not larger than 44 percent.

<sup>&</sup>lt;sup>15</sup> On the original proposal, see WTO (2003a), or a recent re-launching by Argentina, Brazil and India, see WTO document TN/MA/W/54 of 15 April 2005. On current negotiations, see e.g. statement of Director-General Pascal Lamy at the meeting of the WTO Trade Negotiations Committee on 13 October 2005; http://www.wto.org/english/news\_e/news05\_e/tnc\_13oct05\_e.htm

These data may nevertheless be of some use if we consider only weighted averages; since these by definition only consider traded items. We shall therefore compare the weighted averages for "MFN applied and "actually applied" in order to obtain a first indication about the role of trade preferences. Figure 11 shows the ratio between these two tariff averages, for each country. We use a data set of 77 countries, with data coverage above 30 percent in all cases. For countries with zero tariffs, the ratio is set at one.



Since the MFN applied tariff average is the upper bound, countries with preferential tariffs will have a ratio below one. The Figure suggests that more than 30 countries have significant preferential schemes. For rich countries, these are FTAs and GSP, for poor countries FTAs are the main form.

The ratios in Figure 11 do not show the absolute magnitude of preferences; whether tariffs are cut from 20 to 10 percent or from 2 to 1 percent shows up as a ratio of 0.5 in both cases. Figure 12 shows the absolute levels, for the same underlying data and countries.

It is evident that preferences play a role for low-tariff as well as high-tariff countries, and the Figure shows that the absolute magnitude, and therefore the potential impact, is larger for the high-tariff cases. In order to utilize preferences, traders must also comply with rules of origin and this implies a transaction cost, frequently estimated at 2–5 percent (see, for example, Estevadeordal and Suominen, 2004). For countries with tariff averages at 1 or 2 percent, therefore, the cost of compliance may be larger than the benefit.

Figures 11 and 12 provide a crude indication about the importance of preferences. They may however understate the role of preferences since the TRAINS database only covers preferences selectively. For example, Mexico's tariff schedules indeed covers many FTAs but not the ones with the European Free Trade Association (EFTA), Costa Rica, Nicaragua and (the recent one with) Japan. Hence the ratio of Mexico, equal to 13.25/27.02, may under-estimate the importance of FTAs.

In order to examine preferential tariffs more thoroughly, we therefore have to use detailed data on preferential tariffs and check their coverage. In the following, we shall provide some examples based on available data, focusing on countries that are relatively large importers in the various regions. It is however beyond the scope of this study to examine all countries and their preferences.

We therefore do not present world averages including preferential tariffs, as undertaken for bound and MFN applied tariffs in Table 5. For this purpose, there are too many limitations in the data we have at hand. <sup>16</sup> If we undertake such calculations, we find that e.g. the world averages of fish imports weighted by GNI drop from 8 percent (for MFN applied) to 5 percent with preferences included. Using real GDP (PPP) as weights, the average drops from 11 to 8 percent. These figures

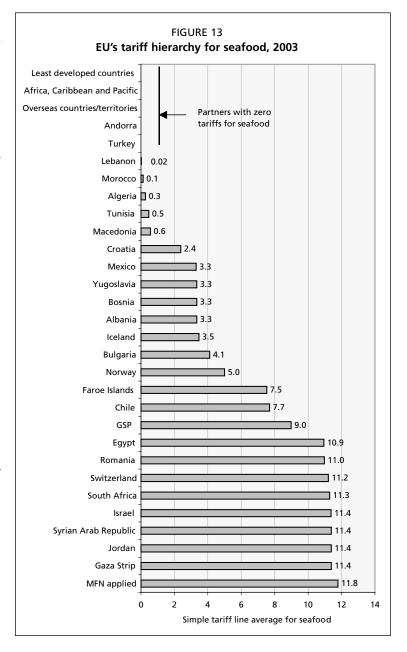
<sup>&</sup>lt;sup>16</sup> In particular, less than half of the tariff lines (i.e. the traded ones) are included, the coverage of FTAs is incomplete, and the data should be checked further for errors.

are however uncertain and should be considered as crude indications rather than reliable results. Also in this case, the weight of the large high-income importers has strong influence so the average is close to the figure for the high-income group. In the context of e.g. WTO negotiations, a figure of 5 percent would nevertheless give a wrong impression about the true level of seafood tariffs.

#### 8. TARIFF PREFERENCES: SELECTED COUNTRIES

In the following, we present some evidence of trade preferences for seafood in selected countries, based on tariff-line data in each case.

The world leader of regional integration is still the EU. In addition to a large number of FTAs, EU has its GSP system, and even more generous preferences for the least developed countries (LDCs), the overseas countries and territories (OCT), and the African, Caribbean and Pacific countries covered by the current Cotonou Agreement.<sup>17</sup> For an overview including references, see Melchior (2005). Figure 13 shows the preference hierarchy of the EU for seafood, based on tariff data for 2003. Some improvements in the GSP system were introduced in July 2005, but we do not have detailed data on these at the time of writing. The MFN tariff of the EU was, to our knowledge, not changed from 2003 to 2005, so the other tariff levels should be representative. Note that we use tariff line averages based on data at the 10/12 digit level.18 The comparison across partners for an individual importer is the main focus here, so we do not have to worry about



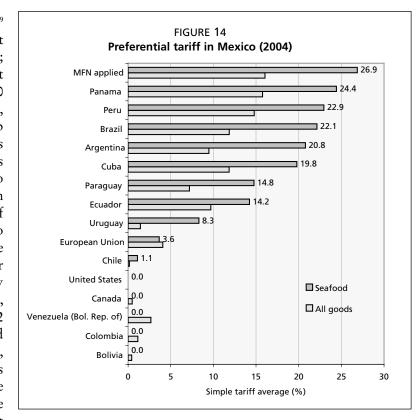
classification differences across importers. In the Figure, we have dropped the ten countries that became EU members in May 2004, since their preferences back in 2003 are now history.

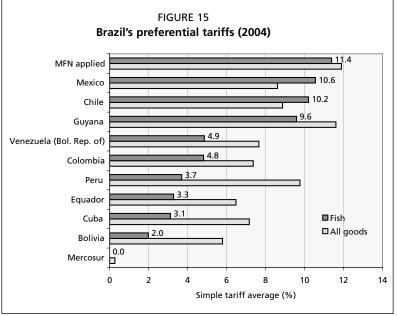
<sup>&</sup>lt;sup>17</sup> The EU is currently negotiating asymmetrical FTAs that are to replace the current GSP scheme for ACP. This is partly because EU only has a temporary permission by the WTO to practice this kind of trade discrimination under GSP. Until July 2005, the EU also had a generous GSP scheme for "Countries Fighting Drugs" (Pakistan plus 11 countries in Latin America). This created a conflict in the WTO, however, and the scheme was recently abandoned.

<sup>&</sup>lt;sup>18</sup> There are some minor differences between the EU tariff averages obtained here, in Table 2 and the tariff line average in Table A1 of the Appendix. These differences are small, so we have not made an attempt to explain them. They may be due to technical data issues and aggregation.

Hence at least in 2003,19 ordinary GSP was not very generous for seafood; implying a rather modest tariff cut from 11.8 to 9.0 percent. LDCs, the African, Caribbean and Pacific Group of States (ACP) and overseas countries and territories (OCT) top the list with zero tariffs, and the FTAs span from almost complete tariff elimination to almost no reduction at all. From the "Christmas tree" it is clear that trade preferences play a major role for the EU, with tariff gaps at up to 12 percent for seafood. It should be observed that for seafood, EU tariffs are sometimes lowered within tariff rate quotas (TRQs). These have not been taken into account here, and the results should be interpreted with some caution due to this.

In North America, the United States and Canada also have FTAs and GSP. While tariff preferences may be quite important for e.g. textiles, agriculture and some manufactured goods, they are less important for seafood (see Melchior, 2005). The reason is that the average tariff level for seafood is low (around 1 percent for both, at the 6-digit level).





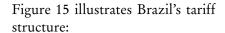
In the Americas, we find other countries where tariff preferences are large and important. Figure 14 shows seafood tariffs in Mexico, for different suppliers.<sup>20</sup> For comparison, the Figure also shows the tariff average for all goods (also including *ad valorem* tariffs in agriculture).

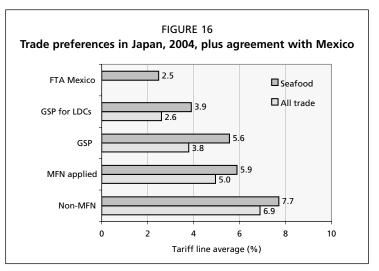
As noted above, some FTAs are missing, with EFTA (including Norway as a large seafood exporter) as the most important gap. The EFTA-Mexico FTA implies that seafood tariffs are reduced to a low level (1.4 percent for Norway, according to some alternative data).

<sup>&</sup>lt;sup>19</sup> GSP was not changed from this until mid-2005.

<sup>&</sup>lt;sup>20</sup> For comprehensive information about FTAs in Latin America, see http://www.sice.oas.org/acuerdoe.ASP.

With MFN tariffs at 27 percent, the tariff preferences of Mexico imply large differences between suppliers. Preferences within the Americas are important, but Mexico, along with Chile in particular, has been among the most ambitious in terms of expanding its FTA network worldwide. In addition to the EU and EFTA, this now also covers Japan. We will revert to the Mexico-Japan FTA later.





All of Brazil's preferences are in Latin America, with Mercosur (also including Argentina, Uruguay and Paraguay) obtaining complete tariff elimination for seafood, and almost complete tariff elimination for other goods. Observe the considerable difference in tariff levels for Chile and Peru; two large seafood exporters in the region.

Regionalism has recently also spread to Asia (see, for example, Lee and Shin, 2005). Formerly, FTAs in Asia were limited to ASEAN, and the nations Japan, India, China and Republic of Korea did not focus on FTAs. Since 2002, this has changed dramatically, and there is now a strong acceleration in the formation of FTAs in the region. Ambitious plans exist for FTAs between ASEAN countries and the four others mentioned above. Asian nations have now also started to negotiate FTAs outside the region. Japan recently concluded negotiations with Mexico, and Chile has obtained better market access in Korea under a new FTA. Figure 16 shows Japan's tariff pattern in 2004 (also adding the recent agreement with Mexico).

Although the columns are fewer than in the former cases, the current change is significant. The Japan-Mexico FTA entails a considerable tariff reduction for seafood; from 5.9 to 2.5 percent.<sup>21</sup> For 93 out of 296 tariff lines, however, there is no tariff reduction.

The Republic of Korea–Chile agreement implies that the Republic of Korea's tariffs for seafood from Chile are reduced from 15.9 percent to zero over some time. For 65 percent of the tariff lines, liberalization occurs immediately upon entry into force, but for other goods, there are transition periods (5 years for 25 percent of the tariff lines, 10 years for 10 percent).<sup>22</sup> In 2014, all tariffs will be zero. Chile is currently negotiating an FTA with China. Chile and Japan have set up a "study group" on the feasibility of an FTA, signalling a possible FTA in the future.

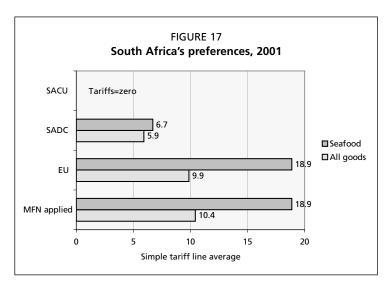
EFTA has recently concluded an FTA with Republic of Korea. According to available information (at the time of writing), the solution for seafood is along similar lines as the Republic of Korea–Chile agreement (with zero tariffs for almost all seafood products, partly subject to transition periods). EFTA has also signalled its intention to negotiate an FTA with Thailand; with a first round of negotiations announced in October 2005.<sup>23</sup> Exploring possible agreements with Japan and China is also on EFTA's agenda.

<sup>&</sup>lt;sup>21</sup> Own calculations based on the text of the agreement, see http://www.sice.oas.org/acuerdoe.ASP. This has been undertaken only for seafood. There are some uncertainties about classification, and the calculations are based on an assessment of the correspondence between the text referring to 6-digit items and Japan's 9-digit classification.

<sup>&</sup>lt;sup>22</sup> Own calculations based on the agreement texts.

<sup>&</sup>lt;sup>23</sup> See EFTA's Web page, http://secretariat.efta.int/Web/Events/thai1.

Our last example is from Africa, where South Africa has been a leading player in the network of FTAs in the region, and also beyond the region in the form of the South Africa-EU agreement. Unfortunately, we do not have recent tariff data to show the developments. Our tariff data for South Africa are from 2001 so it is possible that further tariff reductions have taken place later under the agreement with EU. Hence the pattern may have changed. South Africa is also negotiating with the United States



and EFTA. Also for SADC, it is likely that tariffs have been further reduced after 2001. Unfortunately, however, we do not have more recent data.

In the SACU customs union, tariffs have been fully eliminated. At this early stage of the EU-South Africa agreement, preferences for the EU were very limited. For SADC, tariffs had been considerably reduced already at that time, especially for seafood. This illustrates that trade preferences within Southern Africa were significant already in 2001.

#### 9. TARIFF ESCALATION?

In the literature on North–South trade, tariff escalation is a recurring issue. Tariff escalation occurs when tariffs are higher for more processed goods. It is sometimes maintained that tariff escalation hinders industrial development and diversification, so that poor countries remain producers of raw materials and goods with lower value added. From a neoclassical perspective, poor countries have a comparative advantage in cheap labour, and tariff escalation is an expression of protectionism, in order to defend labour-intensive industries in rich countries.

It is therefore of some interest to consider whether there is tariff escalation for seafood. Are tariffs higher for more processed products? In order to examine this, we subdivide seafood into 10 categories, with a particular focus on the extent of processing. Fish is divided into fresh, frozen, semi-processed and processed, and crustaceans (named "shrimp" in the table below) are split into fresh, frozen and processed. In addition, we include "industrial fish" (fish oils, meals, waste, etc.), molluscs and live fish.<sup>24</sup> As seen from Table A1 in the Appendix, developing countries have a relatively high share of world exports for processed fish, and for frozen and processed crustaceans.<sup>25</sup> In the following, we shall check whether tariffs could play some role in this respect.

For the purpose of this analysis, we use data on MFN applied tariffs, where our data are most complete. We drop countries with less than 50 observations at the 6-digit level, so we have a sample of 139 countries. Then we express data for each subgroup as a deviation from the country average for seafood. If these tariff deviations for two different sub-groups are positively correlated,

There is surely also variations within categories; e.g. between different species, but we drop a more detailed examination of this. To some extent, this is also difficult since different species are included in the same 6-digit items.

<sup>&</sup>lt;sup>25</sup> Developing countries have low shares for fresh products. A possible explanation is that fresh seafood trade is regionally delimited, so rich countries import from their rich neighbours. Another possible explanation is that trade in fresh products is more demanding in terms of technology and infrastructure, and that poor countries are less able to meet these requirements.

TABLE 7: To what extent are tariffs for different types of seafood correlated?

	Frozen fish	Semi- processed fish	Processed fish	Fish oils etc.	Live fish	Molluscs	Fresh shrimps	Frozen shrimps	Processed shrimps
Fresh fish	0.79**	-0.08	-0.50**	-0.55**	0.25**	-0.38**	-0.49**	-0.26**	-0.61**
Frozen fish		-0.08	-0.53**	-0.50**	0.19*	-0.40**	-0.60**	-0.34**	-0.58**
Semi-processed fish			0.10	-0.05	-0.27**	-0.32**	-0.22**	-0.35**	-0.17*
Processed fish				0.35**	-0.19*	-0.30**	-0.08	-0.32**	-0.52**
Fish oils, etc.					-0.25**	0.04	0.33**	-0.10	0.31**
Live fish						-0.14	-0.12	0.02	-0.13
Molluscs							0.74**	0.75**	0.01
Fresh shrimps								0.72**	0.04
Frozen shrimps									0.02

Notes: Pearson correlation coefficients. Number of observations: Between 137 and 139 in all cases. MFN applied tariffs for 139 countries are included in calculations; using deviations from each country's tariff average for seafood.

it implies that they tend to be high or low at the same time. It the correlation is negative, it implies that if one is above (below) the average, the other tends to be below (above). Stochastic variation in the tariffs may induce negative correlations, since e.g. a high tariff tends to be different from the others and therefore negatively correlated. Furthermore, there are more 6-digit positions for some groups (especially fresh and frozen fish), so these tend to be closer to the simple average. This has to be recalled when interpreting the results.

Table 7 shows the correlations between groups, with \*\* or \* indicating whether the correlation coefficients are statistically different from zero with P-values below 1 percent or 5 percent, respectively. A maximum of 1 would indicate that the tariff

TABLE 8: Tariff averages for different subgroups of seafood, for all countries taken together (simple averages based on country averages)

	Bound	MFN applied	Actually applied
All seafood	33.8	15.5	13.0
Fresh fish	33.9	14.7	11.9
Frozen fish	33.6	14.7	12.1
Semi-processed fish	31.5	15.4	12.6
Processed fish	31.8	18.3	15.3
Fish oils, etc.	38.3	9.8	7.0
Live fish	35.0	14.4	11.7
Molluscs	33.1	17.2	14.9
Fresh shrimps	33.0	16.1	12.9
Frozen shrimps	32.8	17.4	14.5
Processed shrimps	35.9	20.0	16.6
Number of countries included in calculation	70	139	79

deviations for two categories were completely proportional, whereas -1 would signify an inverse relationship.

For interpreting these results, it is useful to observe also the tariff levels for the various categories, shown in Table 8 (with MFN applied tariffs in the middle).

Tariffs for fresh and frozen fish are closely correlated, but these two are not correlated with tariff deviations for semi-processed fish, and negatively correlated with processed fish. Now considering that the tariff level for processed fish is higher (Table 8), the negative correlation is an indication of tariff escalation.

Tariffs for molluscs, fresh and frozen shrimps are closely correlated, but these are however not correlated with the tariffs for processed shrimps. So even if the average tariff for processed shrimps is higher than for the less processed items, there is not an unambiguous indication of tariff escalation.

The (negative) correlations also show that tariffs for fish and shrimps tend to differ, and the tariff averages show that the tariff levels for the latter tend to be higher. Correlations for fish oils etc. show a mixed picture, but Table 8 demonstrates that the average tariff for this group is substantially below the seafood average. Given that industrial fish products is a category with substantial processing, it suggests that the evidence in favour of tariff escalation is mixed.

<sup>&</sup>lt;sup>26</sup> This gap is also statistically significant; i.e. tariff for fish oils etc. are significantly lower than average seafood tariffs.

TABLE 9: MFN applied tariffs - deviations for subgroups, or different income groups

		Deviation from tariff average for:							
Income group	Number of countries	Fish, raw or medium processed	Fish, processed	Fish oils, etc.	Live fish	Molluscs and shrimps	Molluscs and shrimps, processed		
High income	21	-0.1	1.4	-1.1	-2.2	-0.4	1.5		
Upper middle	25	-0.1	-0.5	-11.3	0.3	2.1	4.0		
Lower middle	43	-1.1	2.9	-6.5	-1.1	1.3	4.9		
Low income	51	-1.2	4.5	-4.5	-1.6	1.6	5.5		
World	141	-0.8	2.7	-5.8	-1.2	1.3	4.5		

As a final check, we examine whether the patterns differ between income groups. In Table 9, we have merged some of the subcategories, and show the "average deviations from the tariff averages" for different country groups:

Since rich countries have lower tariffs, the absolute values are generally smaller in this case. The signs of deviations are however identical for high-income, lower middle income and low income countries. The upper middle income group stands out as slightly different, with respect to processed fish. In general, however, the conclusion is that there are not very strong differences in the tariff patterns across income groups. Hence it is not generally true that, for example, "rich countries use tariff escalation against developing countries". To the extent that there is tariff escalation, it is not exclusive for the high-income countries.

Our results therefore provide some support for the presence of tariff escalation, especially for fish. Tariffs for processed items are on average above those for unprocessed goods also for molluscs and crustaceans, but there is a lot of variation in tariffs so we do not obtain unambiguous statistical evidence on tariff escalation in this case. It may be, however, that such evidence could be obtained by means of a more "fine-tuned" test where products are classified more rigorously in order to compare unprocessed and processed items based on the same raw materials. The evidence on tariff escalation presented here should therefore be considered as tentative. Roheim (2005, 285) also concludes that compared to agriculture, the extent of tariff escalation for seafood is moderate. It is nevertheless easy to find examples of tariff escalation; e.g. the EU has a 13 percent tariff on smoked salmon while whole salmon is subject is subject to 2 percent only.

#### 10. FINAL REMARKS

In this paper, we have shown that tariff barriers to international trade in seafood products are important; although there is considerable variation across countries. In the paper, we have used data that have recently become more easily available, giving a data set of up to 169 countries. The paper thereby adds to the knowledge about international trade in seafood, by presenting a more comprehensive assessment of tariffs than earlier available.

At the time of writing (October 2005), the "Doha Development Agenda" of the WTO approaches its final stages, and in some time we may know whether tariffs will be reduced from the levels described here. As we have shown, however, there is a lot of "water in the tariffs", so applied tariffs may not be changed much unless reductions in bound tariffs are considerable.

This paper presents a partial, but nevertheless rather comprehensive, picture of the level of protection for seafood. There are nevertheless some important omissions, and in spite of the better data, there are still uncertainties about data quality. An omission is that some countries may practice tariff rate quotas, with lower tariffs within quantitative ceilings. This is, for example, of some importance in the EU, and implies that the nominal tariffs examined here may overstate the true level of protection. On the other hand, there may be red tape and non-tariff barriers that increase the level of protection. There may also be tariffs introduced as e.g. anti-dumping duties, and there may be other trade regulations. It should therefore be recalled that the analysis here has not addressed all elements of protection.

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## **APPENDIX**

TABLE A1: Classification of seafood products for the analysis of tariff barriers in world seafood trade

Number of 6-digit items, HS1996/ HS2002	Description	HS2002	World imports 2003, total	World imports 2003, from dev. countries	Group percent of total	Dev. country share of world exports
1132002			Mill. US\$	Mill. US\$	percent	percent
21/24	Fresh whole fish, all species	0302	8 838	2 188	11.66	24.75
24/28	Frozen whole fish, all species	0303	11 634	5 478	15.34	47.09
15	Modestly processed fish, all species (fillets and dried, salted, smoked, etc.)	0304, 0305	16 313	7 398	21.51	45.35
9	More processed fish	1604	4 620	2 352	6.09	50.92
5	Oils, meals, fats from fish, etc.	051191, 150410-20 1603, 230120	3 680	1 909	4.85	51.87
5	Live fish	0301	1 321	587	1.74	44.45
12	Molluscs	0307	7 443	4 519	9.82	60.72
5	Crustaceans etc., fresh	030621-29	2 430	817	3.20	33.62
5	Crustaceans etc., frozen	030611-19	14 299	10 976	18.86	76.76
5	Crustaceans etc., processed	1605	5 249	3 193	6.92	60.83
106/113	All seafood		75 825	39 417	100	51.98

Note: Developing countries are defined here as low and middle income countries, using the World Bank's classification. Trade data are from the COMTRADE database.

TABLE A2A: Tariff data, country averages for seafood

								Tariff	Tariff average					HS6 lines
Country	HS version	Data source	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Albania	HS1996	TRAINS	2002	Bound	100	100	0.1	0.2	0.1	0.0	1.1	0	10	
Albania	HS1996	TRAINS	2002	MFN applied	100		10.2	6.6	10.4	10.4	6.4	0	15	
Albania	HS1996	TRAINS	2002	Actually applied	41		8.2	8.3	10.4	10.7	6.5	0	15	
Algeria	HS2002	TRAINS	2003	Bound	0	0								
Algeria	HS2002	TRAINS	2003	MFN applied	100		28.8	29.5	8.5	29.7	5.0	5	30	
Algeria	HS2002	TRAINS	2003	Actually applied	46		27.2	27.6	8.4	29.6	7.6	5	30	
Angola	HS1996	TRAINS	2002	Bound	100	100	59.9	59.9	58.5	0.09	8.0	55	09	
Angola	HS1996	TRAINS	2002	MFN applied	100		31.1	31.1	19.9	31.0	8.3	5	35	
Angola	HS1996	TRAINS	2002	Actually applied	54		28.4	28.4	19.9	31.6	9.3	5	35	
Antigua and Barbuda	HS1996	TRAINS	2003	Bound	1	3	100.0	100.0	100.0	100.0	0.0	100	100	
Antigua and Barbuda	HS1996	TRAINS	2003	MFN applied	100		21.5	22.7	14.3	23.9	16.0	0	40	
Antigua and Barbuda	HS1996	TRAINS	2003	Actually applied	64		16.8	17.3	14.3	24.5	15.2	0	40	
Argentina	HS2002	TRAINS	2004	Bound	100	100	33.3	34.0	35.0	34.6	7.0	5	35	
Argentina	HS2002	TRAINS	2004	MFN applied	100		11.5	11.6	15.8	0.0	3.4	0	21.5	
Argentina	HS2002	TRAINS	2004	Actually applied	42		7.8	8.5	9.0	6.1	6.2	0	21.5	
Armenia	HS1996	TRAINS	2001	Bound	100	100	15.0	15.0	15.0	15.0	0.5	10	15	
Armenia	HS1996	WTO/IDB	2004	MFN applied	100		9.5	9.5		9.5	2.4	0	15	
Armenia	HS1996	TRAINS	2001	Actually applied	6		9.0	9.0	2.2	8.0	3.0	0	10	
Australia	HS2002	TRAINS	2005	Bound	95	100	0.7	0.7	2.3	1.2	1.8	0	10	2
Australia	HS2002	TRAINS	2005	MFN applied	100		0.0	0.0	0.5	0.2	0.5	0	2	
Australia	HS2002	TRAINS	2005	Actually applied	81		0.1	0.1	0.5	0.2	8.0	0	2	
Azerbaijan	HS1996	TRAINS	2002	Bound	0	0								
Azerbaijan	HS1996	TRAINS	2002	MFN applied	44		7.3	7.6	13.1	10.5	7.4	0.5	20	18
Azerbaijan	HS1996	TRAINS	2002	Actually applied	8		11.4	14.3	13.1	11.2	6.2	0.5	15	17
Bahamas	HS1996	TRAINS	2002	Bound	0	0								
Bahamas	HS1996	TRAINS	2002	MFN applied	100		25.8	25.9	19.5	27.7	11.1	0	35	
Bahamas	HS1996	TRAINS	2002	Actually applied	79		24.1	23.8	19.5	27.7	12.6	0	35	
Bahrain	HS2002	WTO/IDB	2004	Bound	-	е	35.0	35.0		35.0	0.0	35	35	
Bahrain	HS2002	WTO/IDB	2004	MFN applied	100		3.2	3.3		3.3	2.4	0	2	
Bahrain	HS88/92	TRAINS	2001	Actually applied	61		3.9	3.8	4.1	4.2	2.1	0	2	

								Tariff a	Tariff average					HS6 lines
Country	HS version	Data source Year	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Bangladesh	HS2002	TRAINS	2004	Bound	11	12	78.0	75.4	200.0	45.7	73.9	30	200	
Bangladesh	HS2002	TRAINS	2004	MFN applied	100		28.2	27.5	29.9	27.2	6.3	0	30	
Bangladesh	HS2002	TRAINS	2004	Actually applied	17		27.7	26.5	29.9	24.0	7.4	0	30	
Barbados	HS1996	WTO/IDB	2004	Bound	1	3	115.8	121.0	120.9	100.0	17.1	100	141	
Barbados	HS1996	WTO/IDB	2004	MFN applied	100		1.0	1.0	1.0	1.0	0.0	1	1	
Barbados	HS1996	TRAINS	2003	Actually applied	28		68.9	48.6	58.2	54.8	54.6	2	159	4
Belarus	HS1996	TRAINS	2002	Bound	0	0								
Belarus	HS1996	TRAINS	2002	MFN applied	100		10.8	11.0	5.5	11.1	2.4	1	20	
Belarus	HS1996	TRAINS	2002	Actually applied	65		10.7	11.0	5.5	11.2	2.2	1	20	
Belize	HS1996	TRAINS	2003	Bound	9	7	107.0	107.5	107.2	109.2	4.6	100	110	
Belize	HS1996	TRAINS	2003	MFN applied	100		29.1	30.4	8.2	32.6	16.6	0	45	
Belize	HS1996	TRAINS	2003	Actually applied	30		23.9	23.7	8.2	30.1	15.6	0	45	
Benin	HS2002	TRAINS	2004	Bound	15	17	12.2	12.2	7.0	9.5	16.9	0	09	
Benin	HS2002	TRAINS	2004	MFN applied	100		14.5	14.5	11.7	16.8	5.1	2	20	
Benin	HS2002	TRAINS	2004	Actually applied	20		15.3	14.9	11.7	17.6	5.0	10	20	
Bermuda	HS1996	TRAINS	2001	Bound	0	0								
Bermuda	HS1996	TRAINS	2001	MFN applied	100		6.3	6.3	7.0	8.9	2.8	0	22.25	
Bermuda	HS1996	TRAINS	2001	Actually applied	36		6.1	6.1	7.0	7.3	2.8	0	10	
Bhutan	HS1996	TRAINS	2004	Bound	0	0								
Bhutan	HS1996	TRAINS	2004	MFN applied	100		30.2	30.2	30.0	30.0	1.9	30	20	
Bhutan	HS1996	TRAINS	2004	Actually applied	2		30.0	30.0	30.0	30.0	0.0	30	30	
Bolivia	HS2002	TRAINS	2004	Bound	100	100	40.0	40.0	40.0	40.0	0.0	40	40	
Bolivia	HS2002	TRAINS	2004	MFN applied	100		10.0	10.0	10.0	10.0	0.0	10	10	
Bolivia	HS2002	TRAINS	2004	Actually applied	37		8.4	8.2	5.1	8.3	3.3	0	10	
Bosnia /Herzegovina	HS1996	TRAINS	2001	Bound	0	0								
Bosnia /Herzegovina	HS1996	TRAINS	2001	MFN applied	100		3.1	2.9	7.8	2.9	4.1	0	15	
Bosnia /Herzegovina	HS1996	TRAINS	2001	Actually applied	52		3.3	3.3	6.5	2.3	4.0	0	10	
Botswana	HS2002	WTO/IDB	2002	Bound	1	1	37.0	37.0		37.0	0.0	37	37	
Botswana	HS2002	WTO/IDB	2002	MFN applied	29		0.9	4.8		5.3	7.6	0	24	
Botswana	HS1996	TRAINS	2001	Actually applied	20		2.4	1.8	0.0	1.1	7.4	0	25	9

Country         HS         Data source version         Year         Tariff type percent         Cobasta percent of percent of percent of version         Tariff type percent of percent of percent of the percent of t					Tariff	Tariff average					HS6 lines
HS2002         WTO/IDB         2005         Mend applied         100         100         133.0         33.8           HS2002         WTO/IDB         2005         MFN applied         61         7.9         8.7           HS2002         TRAINS         2004         Actually applied         61         7.9         8.7           HS2002         TRAINS         2004         MFN applied         570         0.0         0.0           a         HS2002         TRAINS         2004         MFN applied         570         0.0         0.0           a         HS2002         TRAINS         2004         MFN applied         65         0.0         0.0         0.0           a         HS2002         TRAINS         2004         MFN applied         65         0.0         0.0         0.0           a         HS2002         TRAINS         2004         Actually applied         65         7         28.8         28.8           a Faso         HS2002         TRAINS         2004         Actually applied         6         7         28.8         11.5           a Faso         HS2002         TRAINS         2004         Actually applied         6         7         28.6	Data source Year		Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
H52002         TRAINS         2004         Actually applied         61         100         100         101           H52002         TRAINS         2004         Actually applied         61         0         214         21.2           H52002         TRAINS         2004         MEN applied         100         100         21.4         21.2           a         H52002         TRAINS         2004         MEN applied         57         0.0         0.0           a         H52002         TRAINS         2004         Actually applied         100         100         32.4         30.8           a         H52002         TRAINS         2004         Actually applied         15         17         16.4         11.9           a         H52002         TRAINS         2004         Actually applied         15         17         16.4         16.4           a Fasco         H52002         TRAINS         2004         Actually applied         100         0         0         0.0           a Fasco         H52002         TRAINS         2003         Actually applied         6         7         28.4         16.4           a Fasco         H51996         TRAINS <t< td=""><td>2005</td><td>100</td><td>100</td><td>33.0</td><td>33.8</td><td></td><td>34.0</td><td>8.9</td><td>0</td><td>22</td><td></td></t<>	2005	100	100	33.0	33.8		34.0	8.9	0	22	
H52002         TRAINS         2004         Actually applied         61         7.9         8.7           H52002         TRAINS         2004         Menapplied         100         100         21.4         21.2           H52002         TRAINS         2004         Actually applied         100         0.0         0.0           a         H52002         TRAINS         2004         Actually applied         100         100         32.4         30.8           a         H52002         TRAINS         2004         Actually applied         65         7         11.9         11.9           a Faso         H52002         TRAINS         2004         Actually applied         65         7         28.8         28.8           a Faso         H52002         TRAINS         2004         Actually applied         6         7         28.8         14.5           a Faso         H52002         TRAINS         2002         Actually applied         6         7         28.8         28.8           a Faso         H51996         TRAINS         2002         Actually applied         100         0         0         0           dia         H51996         TRAINS         2002	WTO/IDB 2005			10.0	10.1		10.4	3.2	0	16	
HS2002         TRAINS         2004         Bound         100         100         21.4         21.2           HS2002         TRAINS         2004         Actually applied         57         0.0         0.0           a         HS2002         TRAINS         2004         Actually applied         57         0.0         0.0           a         HS2002         TRAINS         2004         MFN applied         65         11.9         11.9         11.9           a         HS2002         TRAINS         2004         MFN applied         65         17         16.4         16.4           a Faso         HS2002         TRAINS         2004         Actually applied         65         7         28.8         17.9           a Faso         HS2002         TRAINS         2004         Actually applied         65         7         28.8         18.8           a Faso         HS2002         TRAINS         2003         Actually applied         6         7         28.8         28.8           ii         HS1996         TRAINS         2003         Actually applied         6         7         28.8         28.6           dia         HS1996         TRAINS         2003	2004			7.9	8.7	4.6	7.8	5.8	0	17.5	
H52002         TRAINS         2004         MFN applied         100         0.0         0.0           a         H52002         TRAINS         2004         Actually applied         57         0.0         0.0         0.0           a         H52002         TRAINS         2004         MFN applied         100         11.9         11.9         11.9           a         H52002         TRAINS         2004         Actually applied         65         17         16.4         16.4           a Faso         H52002         TRAINS         2004         MFN applied         19         14.5         14.5           a Faso         H52002         TRAINS         2004         Actually applied         6         7         28.8         28.8           a Faso         H52002         TRAINS         2003         Actually applied         10         0         0         14.5         14.5         14.5           a Faso         H51996         TRAINS         2003         Actually applied         6         7         28.8         28.6         28.6           dia         H51996         TRAINS         2003         Actually applied         10         0         0         14.5         29.0<	2004		100	21.4		23.8	23.7	4.0	20	20	
signation         HS2002         TRAINS         2004         Actually applied         57         0.0         0.0           ria         HS2002         TRAINS         2004         Men applied         100         11.9         11.9         11.9           ria         HS2002         TRAINS         2004         Actually applied         65         17         16.4         16.5           ras         HS2002         TRAINS         2004         Actually applied         65         7         18.8         11.8         11.5           na Faso         HS2002         TRAINS         2004         Actually applied         100         7.9         14.5           rad         HS1996         TRAINS         2002         Actually applied         100         7         28.8         14.5           radi         HS1996         TRAINS         2003         Actually applied         6         7         28.8         28.8           radi         HS1996         TRAINS         2003         Actually applied         10         7         28.8         28.8           radi         HS1996         TRAINS         2003         Actually applied         10         7         28.8         28.8 <t< td=""><td>TRAINS 2004</td><td></td><td></td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0</td><td>0</td><td></td></t<>	TRAINS 2004			0.0	0.0	0.0	0.0	0.0	0	0	
ria         HS2002         TRAINS         2004         Bound         100         100         32.4         30.8           ria         HS2002         TRAINS         2004         Artually applied         65         1.19         11.9         11.9           ria         HS2002         TRAINS         2004         Actually applied         65         7         18.4         16.4         11.9           na Faso         HS2002         TRAINS         2004         Actually applied         15         17         16.4         16.4         16.5           na Faso         HS2002         TRAINS         2004         Actually applied         19         7         28.8         18.5           ria         HS2002         TRAINS         2002         Actually applied         6         7         28.8         28.8           ria         HS1996         MTAINS         2003         Actually applied         6         7         28.8         28.8           ria         HS1996         TRAINS         2003         Actually applied         6         7         28.8         28.8           ria         HS1996         TRAINS         2003         Actually applied         10         7 <t< td=""><td>2004</td><td></td><td></td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0</td><td>0</td><td></td></t<>	2004			0.0	0.0	0.0	0.0	0.0	0	0	
ria         HS2002         TRAINS         2004         AFRAINS         2004         Actually applied         65         11.8         11.9         11.9           ria         HS2002         TRAINS         2004         Actually applied         65         17         16.4         16.4           na Fasc         HS2002         TRAINS         2004         MFN applied         19         14.5         14.5           na Fasc         HS2002         TRAINS         2004         Actually applied         19         16.2         16.4         16.4           naid         HS1996         MFNINS         2003         MFN applied         6         7         28.8         28.8           ndi         HS1996         MFNINS         2003         Actually applied         6         7         28.8         28.8           ndi         HS1996         MFNINS         2003         Actually applied         6         7         28.8         28.8           ndi         HS1996         TRAINS         2003         Actually applied         10         0         1.16         1.16         1.16         1.16           ndi         HS1996         TRAINS         2003         Actually applied         1	2004	100	100	32.4	30.8	41.3	29.0	8.4	0	64	
riah         HS2002         TRAINS         2004         Actually applied         65         11.8         12.5           na Faso         HS2002         TRAINS         2004         Bound         15         17         16.4         16.4           na Faso         HS2002         TRAINS         2004         MFN applied         100         14.5         14.5           ndi         HS1996         TRAINS         2002         Actually applied         6         7         28.8         28.8           ndi         HS1996         TRAINS         2002         Actually applied         6         7         28.8         28.8           ndi         HS1996         TRAINS         2003         Actually applied         6         7         28.8         28.8           nodia         HS1996         TRAINS         2003         Actually applied         6         7         28.8         25.6         25.6           nodia         HS1996         TRAINS         2003         Actually applied         100         0         17.8         14.6           nodia         HS1996         TRAINS         2003         Actually applied         100         0         17.8         14.6           <	2004			11.9	11.9	36.9	4.0	6.0	0	20	
na Faso         HS2002         TRAINS         2004         MeN applied         15         17         16.4         16.4           na Faso         HS2002         TRAINS         2004         Artually applied         19         14.5         14.5           di         HS1906         TRAINS         2002         Actually applied         6         7         28.8         28.8           di         HS1996         TRAINS         2002         Actually applied         6         7         28.8         28.8           di         HS1996         TRAINS         2003         Actually applied         6         7         28.8         28.8           odia         HS1996         TRAINS         2003         Actually applied         6         7         28.8         28.8           odia         HS1996         TRAINS         2003         Actually applied         13         80.0         80.0           odia         HS2002         TRAINS         2003         Actually applied         100         100         1.7         1.3           da         HS2002         TRAINS         2005         Actually applied         100         100         1.5         1.0           da         <	2004			11.8		36.9	12.1	5.7	0	20	
na Faso         H52002         TRAINS         2004         Actually applied         100         14.5         14.5         14.5           na Faso         H52002         TRAINS         2004         Actually applied         6         7         28.8         18.8           dij         H51996         TRAINS         2002         Actually applied         6         7         28.8         28.8           dij         H51996         TRAINS         2003         Actually applied         6         7         28.8         28.8           odia         H51996         TRAINS         2003         Actually applied         6         0         0         7.9         7.8           odia         H51996         TRAINS         2003         Actually applied         13         0         0         19.1         19.2           odia         H51996         TRAINS         2003         Actually applied         13         8.0         8.0         8.0           odia         H52002         TRAINS         2005         MEN applied         100         100         1.7         1.3         1.0           da         H52002         TRAINS         2005         MEN applied         100         10	2004	15	17	16.4	16.4	65.1	10.8	29.0	0	100	
na Faso         HS2002         TRAINS         2004         Actually applied         19         16.2         15.6           ndi         HS1996         TRAINS         2002         Bound         6         7         28.8         28.8           ndi         HS1996         WTO/IDB         2003         MFN applied         6         7         28.8         28.8           ndi         HS1996         TRAINS         2002         Actually applied         6         0         0         7.9         7.8           ndia         HS1996         TRAINS         2003         Actually applied         10         0         19.1         19.2           ndia         HS1996         TRAINS         2003         Actually applied         13         0         0         14.6           roon         HS2002         TRAINS         2005         Bound         100         10         1.7         1.3           da         HS2002         TRAINS         2005         MFN applied         100         10         1.5         1.0           da         HS2002         TRAINS         2005         MFN applied         10         10         1.3         30.0         30.0           <	2004			14.5		16.0	16.8	5.1	2	20	
udi         H51996         TRAINS         2002         Bound         6         7         28.8         28.8           udi         H51996         WTO/IDB         2003         MFN applied         100         7.9         7.8         7.8           udi         H51996         TRAINS         2002         Actually applied         6         0         7.9         7.8         7.8           odia         H51996         TRAINS         2003         MFN applied         6         0         0         7.9         7.8         7.8           odia         H51996         TRAINS         2003         MFN applied         100         0         19.1         19.2         7.8           odia         H51996         TRAINS         2003         Actually applied         100         0         17.8         14.6           roon         H52002         TRAINS         2005         MFN applied         100         1.7         1.3         1.0           da         H52002         TRAINS         2005         Actually applied         1         3         80.0         80.0           dal African         H52002         TRAINS         2005         Actually applied         1         3 <td>2004 Actually</td> <td>_</td> <td></td> <td>16.2</td> <td>15.6</td> <td>16.1</td> <td>16.1</td> <td>4.9</td> <td>10</td> <td>20</td> <td></td>	2004 Actually	_		16.2	15.6	16.1	16.1	4.9	10	20	
ndi         H51996         WTO/IDB         2003         Actually applied         6         7.9         7.8           ndi         H51996         TRAINS         2002         Actually applied         6         0         0         25.6         25.6         25.6           nodia         H51996         TRAINS         2003         MFN applied         100         0         19.1         19.2           nodia         H51996         TRAINS         2003         MFN applied         13         80.0         80.0           roon         H52002         TRAINS         2005         Bound         100         17.8         14.6           da         H52002         TRAINS         2005         MFN applied         100         1.7         1.3           da         H52002         TRAINS         2005         MFN applied         98         1.3         1.0           da         H52002         TRAINS         2005         MFN applied         10         33.0         33.0           dal African         H52002         TRAINS         2005         MFN applied         10         33.6         24.1           dal African         H52002         TRAINS         2005         MFN appl	2002	9	7	28.8	28.8	100.0	26.4	41.6	0	100	
ndi         HS1996         TRAINS         2002         Actually applied         6         25.6         25.6         25.6           odia         HS1996         TRAINS         2003         MFN applied         100         0         19.1         19.2           odia         HS1996         TRAINS         2003         Actually applied         13         80.0         80.0         80.0           roon         HS2002         TRAINS         2005         Bound         100         100         1.7         1.3           da         HS2002         TRAINS         2005         Bound         100         1.0         1.7         1.3           da         HS2002         TRAINS         2005         MFN applied         100         1.5         1.0           da         HS2002         TRAINS         2005         Actually applied         100         1.5         1.0           dal African         HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           blic         HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           blic         HS2002         TRAINS         2005	WTO/IDB 2003			7.9	7.8		8.0	6.0	2	8	
odia         H51996         TRAINS         2003         MeN applied         0         0         19.1         19.2           odia         H51996         TRAINS         2003         Met applied         13         0         19.1         19.2           roon         H51996         TRAINS         2005         Actually applied         1         3         80.0         80.0           roon         H52002         TRAINS         2005         MeN applied         100         1.7         1.3           da         H52002         TRAINS         2005         MeN applied         100         1.7         1.3           da         H52002         TRAINS         2005         Actually applied         98         1.3         1.0           dal African         H52002         TRAINS         2005         Men applied         1         3         80.0         30.0           blic         H52002         TRAINS         2005         Men applied         1         3         80.0         80.0           blic         H52002         TRAINS         2005         Men applied         1         3         80.0         80.0           H52002         TRAINS         2005 <td< td=""><td>TRAINS 2002</td><td></td><td></td><td>25.6</td><td></td><td></td><td>25.4</td><td>16.7</td><td>ĸ</td><td>40</td><td></td></td<>	TRAINS 2002			25.6			25.4	16.7	ĸ	40	
odia         HS1996         TRAINS         2003         Actually applied         100         19.1         19.2           rodia         HS1996         TRAINS         2003         Actually applied         13         17.8         14.6           roon         HS2002         TRAINS         2005         MFN applied         100         100         1.7         1.3           da         HS2002         TRAINS         2005         MFN applied         100         1.7         1.3           da         HS2002         TRAINS         2005         Actually applied         98         1.3         1.0           all African         HS2002         TRAINS         2005         Actually applied         1         3         30.0         30.0           blift         HS2002         TRAINS         2005         MFN applied         1         3         80.0         80.0           HS2002         TRAINS         2005         MFN applied         1         3         80.0         80.0           HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2005         MFN applied         100         25.4	TRAINS 2003	0	0								
odia         HS1996         TRAINS         2003         Actually applied         13         17.8         14.6           roon         HS2002         TRAINS         2005         Bound         1         3         80.0         80.0           roon         HS2002         TRAINS         2005         MFN applied         100         1.0         1.7         1.3           da         HS2002         TRAINS         2005         Actually applied         98         1.3         1.0           al African         HS2002         TRAINS         2005         Actually applied         1         3         30.0         30.0           blic         HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           blic         HS2002         TRAINS         2005         MFN applied         100         23.6         80.0           HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2005         MFN applied         100         25.4         25.6	TRAINS 2003			19.1			20.3	9.1	7	35	
roon         HS2002         TRAINS         2005         MFN applied         1         3         80.0         80.0           roon         HS2002         TRAINS         2005         MFN applied         100         100         1.7         1.3           da         HS2002         TRAINS         2005         MFN applied         100         1.7         1.3           da         HS2002         TRAINS         2005         Actually applied         98         1.3         1.0           al African         HS2002         TRAINS         2005         MFN applied         10         3         30.0         30.0           blic         HS2002         TRAINS         2005         MFN applied         10         3         80.0         80.0           HS2002         TRAINS         2005         MFN applied         10         23.6         24.1           HS2002         TRAINS         2005         MFN applied         100         25.4         25.6	TRAINS 2003			17.8	14.6		19.8	12.4	7	35	
roon         HS2002         TRAINS         2005         MFN applied         100         100         1.7         1.3           da         HS2002         TRAINS         2005         MFN applied         100         1.7         1.3         1.0           da         HS2002         TRAINS         2005         Actually applied         98         1.3         1.0         1.0           al African Olic         HS2002         TRAINS         2005         MFN applied         10         3         30.0         30.0           blic         HS2002         TRAINS         2005         MFN applied         10         3         80.0         80.0           HS2002         TRAINS         2005         MFN applied         10         3         80.0         80.0           HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2004         Bound         100         25.4         25.6	2002	1	٣	80.0	80.0		80.0	0.0	80	80	
da         HS2002         TRAINS         2005         McN applied         100         1.7         1.3           da         HS2002         TRAINS         2005         McTually applied         98         1.5         1.0           al African         HS2002         TRAINS         2005         Actually applied         1         3         30.0         30.0           blic         HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           blic         HS2002         TRAINS         2005         MeN applied         100         23.6         80.0           HS2002         TRAINS         2005         MeN applied         100         23.6         24.1           HS2002         TRAINS         2005         MeN applied         100         23.6         24.1           HS2002         TRAINS         2004         Bound         100         25.4         25.6	2002			23.6	24.1		26.1	5.2	2	30	
da         HS2002         TRAINS         2005         Actually applied         100         1.5         1.0           da         HS2002         TRAINS         2005         Actually applied         98         1.3         1.0         1.0           blic all African blic         HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           blic         HS2002         TRAINS         2005         MFN applied         100         23.6         80.0           HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2004         Bound         100         25.4         25.6	2002	100	100	1.7	1.3	1.2	1.3	2.7	0	11.3	2
da         HS2002         TRAINS         2005         Actually applied         98         1.3         1.0           al African olic         HS2002         TRAINS         2005         Bound         1         3         30.0         30.0           blic         HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2004         Bound         100         25.4         25.6	2002				1.0	6.0	1.0	5.6	0	11	
al African blic         HS2002         TRAINS         2005         Bound         1         3         30.0         30.0           blic         HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2004         Bound         100         25.4         25.6	2002				1.0		0.8	2.5	0	11	
al African         HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           blic         HS2002         TRAINS         2005         Bound         1         3         80.0         80.0           HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2004         Bound         100         25.4         25.6	TRAINS 2005		m	30.0	30.0		30.0	0.0	30	30	
HS2002         TRAINS         2005         Bound         1         3         80.0         80.0           HS2002         TRAINS         2005         MFN applied         100         23.6         24.1           HS2002         TRAINS         2004         Bound         100         25.4         25.6	2005			23.6	24.1		26.1	5.2	5	30	
H52002         TRAINS         2004         MFN applied         100         23.6         24.1           H52002         TRAINS         2004         Bound         100         100         25.4         25.6	2002	-	ю	80.0	80.0		80.0	0.0	80	80	
HS2002 TRAINS 2004 Bound 100 100 25.4 25.6	2002			23.6	24.1		26.1	5.2	2	30	
	2004	100	100	25.4	25.6	25.1	25.0	5.2	25	86	
2004 MFN applied 100 6.0 6.0	TRAINS 2004	lied 100		0.9	0.9	0.9	6.0	0.0	9	9	
Chile         HS2002         TRAINS         2004         Actually applied         51         4.1         4.0         1.9	2004			4.1	4.0	1.9	3.6	2.8	0	9	

								Tariff a	average					HS6 lines
Country	HS version	Data source Year	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
China	HS2002	TRAINS	2004	Bound	100	100	10.6	11.4	11.3	9.5	5.6	0	20	
China	HS2002	TRAINS	2004	MFN applied	100		11.2	11.9	12.1	62.5	5.9	0	58	
China	HS2002	TRAINS	2004	Actually applied	84		10.5	11.5	12.1	10.3	5.9	0	28	
Colombia	HS2002	TRAINS	2004	Bound	100	100	42.1	39.2	45.8	37.9	21.7	35	159	
Colombia	HS2002	TRAINS	2004	MFN applied	100		18.6	19.0	19.1	19.5	3.9	5	20	
Colombia	HS2002	TRAINS	2004	Actually applied	58		14.5	14.6	8.7	13.9	7.4	0	20	
Congo, Dem. Rep.	HS2002	TRAINS	2003	Bound	100	100	93.1	93.1	43.2	96.6	22.3	20	100	
Congo, Dem. Rep.	HS2002	TRAINS	2003	MFN applied	100		16.8	16.9	12.8	17.3	4.7	5	20	
Congo, Dem. Rep.	HS2002	TRAINS	2003	Actually applied	40		16.3	16.6	12.8	17.3	5.0	5	20	
Congo, Rep.	HS2002	TRAINS	2005	Bound	1	3	30.0	30.0		30.0	0.0	30	30	
Congo, Rep.	HS2002	TRAINS	2002	MFN applied	100		23.6	24.1		26.1	5.2	5	30	
Costa Rica	HS2002	TRAINS	2004	Bound	100	100	46.6	46.5	46.0	46.2	5.5	45	94.7	
Costa Rica	HS2002	TRAINS	2004	MFN applied	100		10.2	6.6	3.8	2.8	7.7	0	65	
Costa Rica	HS2002	TRAINS	2004	Actually applied	58		9.2	8.4	3.1	9.8	9.9	0	47	
Côte d'Ivoire	HS2002	TRAINS	2004	Bound	12	14	7.0	7.0	6.9	6.9	5.0	0	15	
Côte d'Ivoire	HS2002	TRAINS	2004	MFN applied	100		14.5	14.5	10.5	16.8	5.1	5	20	
Cote d'Ivoire	HS2002	TRAINS	2004	Actually applied	32		14.2	14.0	10.5	15.7	4.9	10	20	
Croatia	HS2002	TRAINS	2004	Bound	100	100	7.4	7.2	8.1	8.1	4.7	0	25	
Croatia	HS2002	TRAINS	2004	MFN applied	100		8.3	7.2	8.2	8.1	4.9	0	27.6	
Croatia	HS2002	TRAINS	2004	Actually applied	74		7.9	7.3	7.8	7.2	5.7	0	27.6	
Cuba	HS2002	TRAINS	2005	Bound	12	13	10.1	10.1		6.5	15.0	1	40	
Cuba	HS2002	TRAINS	2005	MFN applied	100		5.2	5.2		10.2	7.7	0	30	
Djibouti	HS88/92	TRAINS	2002	Bound	100	100	40.2	40.1	40.0	40.0	1.3	40	20	
Djibouti	HS88/92	TRAINS	2002	MFN applied	100		20.2	20.2	20.0	19.7	2.7	2	40	
Djibouti	HS88/92	TRAINS	2002	Actually applied	15		20.0	20.0	20.0	20.0	0.0	20	20	
Dominica	HS1996	TRAINS	2003	Bound	1	8	112.5	116.7	139.9	100.0	21.7	100	150	
Dominica	HS1996	TRAINS	2003	MFN applied	100		25.6	27.3	21.5	29.7	17.4	0	40	
Dominica	HS1996	TRAINS	2003	Actually applied	23		18.2	18.4	21.5	32.5	16.5	0	40	
Dominican Republic	HS1996	TRAINS	2004	Bound	100	100	40.3	40.3	40.0	40.0	4.4	30	85	
Dominican Republic	HS1996	TRAINS	2004	MFN applied	100		15.5	16.3	10.2	17.1	7.6	0	20	
Dominican Republic	HS1996	TRAINS	2004	Actually applied	71		17.0	17.0	10.2	17.6	9.9	0	20	

					,			Tariff	average					HS6 lines
Country	HS version	Data source Year	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Ecuador	HS2002	TRAINS	2004	Bound	100	100	28.6	29.2	28.0	29.5	4.6	15	54	
Ecuador	HS2002	TRAINS	2004	MFN applied	100		18.4	18.9	17.1	19.4	4.2	5	20	
Ecuador	HS2002	TRAINS	2004	Actually applied	41		12.1	13.8	15.5	16.4	8.0	0	20	
Egypt	HS1996	TRAINS	2002	Bound	100	100	27.4	27.6	14.9	30.5	21.3	5	09	
Egypt	HS1996	TRAINS	2002	MFN applied	100		18.4	18.5	7.1	20.4	15.3	5	40	
Egypt	HS1996	TRAINS	2002	Actually applied	52		16.6	16.7	7.1	20.3	14.4	5	40	
El Salvador	HS2002	TRAINS	2004	Bound	100	100	45.0	45.5	48.4	46.6	8.5	25	70	
El Salvador	HS2002	TRAINS	2004	MFN applied	100		6.6	9.7	14.4	0.1	6.4	0	40	
El Salvador	HS2002	TRAINS	2004	Actually applied	22		7.6	7.7	3.4	8.4	7.4	0	40	
Equatorial Guinea	HS2002	TRAINS	2005	Bound	0	0								
Equatorial Guinea	HS2002	TRAINS	2002	MFN applied	100		23.6	24.1		1.92	5.2	5	30	
Ethiopia (ex. Eritrea)	HS1996	TRAINS	2002	Bound	0	0								
Ethiopia (ex. Eritrea)	HS1996	TRAINS	2002	MFN applied	100		30.8	30.8	31.8	31.5	5.0	5	40	
Ethiopia (ex. Eritrea)	HS1996	TRAINS	2002	Actually applied	18		33.9	33.9	31.8	33.4	7.7	5	40	
European Union	HS2002	TRAINS	2005	Bound	100	100	13.0	11.7	11.8	12.0	9.9	0	56	
European Union	HS2002	WTO/IDB	2005	MFN applied	100		12.5	11.7	11.8	11.9	6.5	0	56	
European Union	HS2002	TRAINS	2005	Actually applied	100		5.2	4.6	4.3	4.7	6.9	0	56	
Fiji	HS2002	WTO/IDB	2004	Bound	1	8	40.0	40.0		40.0	0.0	40	40	
Fiji	HS2002	WTO/IDB	2004	MFN applied	100		15.9	15.9		16.2	4.2	3	27	
Gabon	HS2002	TRAINS	2005	Bound	100	100	16.0	16.2		15.3	6.7	15	09	
Gabon	HS2002	TRAINS	2005	MFN applied	100		23.6	24.1		26.1	5.2	5	30	
Gambia	HS88/92	WTO/IDB	2003	Bound	1	8	110.0	110.0		110.0	0.0	110	110	
Gambia	HS88/92	WTO/IDB	2003	MFN applied	100		17.6	17.6		17.7	2.0	5	18	
Georgia	HS1996	TRAINS	2004	Bound	100	100	9.0	9.0	3.9	0.5	2.6	0	12	
Georgia	HS1996	TRAINS	2004	MFN applied	100		2.9	2.5	5.1	2.4	2.8	2	12	
Georgia	HS1996	TRAINS	2004	Actually applied	52		2.4	2.4	5.1	2.5	1.8	2	12	
Ghana	HS1996	TRAINS	2004	Bound	1	8	79.3	79.3	40.0	99.0	27.8	40	66	
Ghana	HS1996	TRAINS	2004	MFN applied	100		11.4	11.3	6.4	12.8	7.4	5	20	
Ghana	HS1996	TRAINS	2004	Actually applied	10		11.1	11.1	6.4	14.1	7.4	5	20	
Grenada	HS1996	TRAINS	2003	Bound	100	100	51.3	51.4	67.0	50.3	7.9	20	100	
Grenada	HS1996	TRAINS	2003	MFN applied	66		26.5	27.9	18.1	30.2	17.1	0	40	-

								Tariff a	average					HS6 lines
Country	HS version	Data source Year	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Grenada	HS1996	TRAINS	2003	Actually applied	33		18.7	18.7	18.1	29.5	17.1	0	40	
Guatemala	HS2002	TRAINS	2004	Bound	91	91	41.8	42.1	0.99	40.4	12.2	20	160	1
Guatemala	HS2002	TRAINS	2004	MFN applied	100		9.6	9.3	11.4	10.9	5.4	0	20	
Guatemala	HS2002	TRAINS	2004	Actually applied	50		8.2	9.0	9.7	8.6	8.9	0	20	
Guinea	HS88/92	WTO/IDB	2004	Bound	16	18	10.1	10.1		8.3	11.0	0	40	
Guinea	HS88/92	WTO/IDB	2004	MFN applied	100		6.9	6.9		6.8	0.7	2	7	
Guinea-Bissau	HS2002	TRAINS	2004	Bound	100	100	49.7	49.7	49.7	49.9	1.6	40	20	
Guinea-Bissau	HS2002	TRAINS	2004	MFN applied	100		14.5	14.5	16.5	16.8	5.1	2	20	
Guinea-Bissau	HS2002	TRAINS	2004	Actually applied	7		19.3	19.2	16.5	19.4	2.5	10	20	
Guyana	HS1996	TRAINS	2003	Bound	100	100	51.3	51.4	75.2	50.3	7.9	50	100	
Guyana	HS1996	TRAINS	2003	MFN applied	100		28.1	29.6	27.5	30.5	16.1	0	40	
Guyana	HS1996	TRAINS	2003	Actually applied	18		23.9	25.0	27.5	33.5	14.3	0	40	
Honduras	HS2002	TRAINS	2004	Bound	100	100	34.7	34.7	35.0	34.8	2.0	20	40	
Honduras	HS2002	TRAINS	2004	MFN applied	100		9.8	9.4	8.0	10.9	5.9	0	40	
Honduras	HS2002	TRAINS	2004	Actually applied	50		9.5	6.6	5.6	9.8	7.5	0	40	
Hong Kong (SAR China)	HS2002	WTO/IDB	2004	Bound	100	100	0.0	0.0	0.0	0.0	0.0	0	0	
Hong Kong (SAR China)	HS2002	WTO/IDB	2004	MFN applied	100		0.0	0.0	0.0	0.0	0.0	0	0	
Iceland	HS2002	WTO/IDB	2004	Bound	96	96	9.0	4.0	2.0	7.4	33.3	0	175	
Iceland	HS2002	WTO/IDB	2004	MFN applied	100		0.0	0.0	0.0	0.0	0.0	0	0	
Iceland	HS2002	TRAINS	2003	Actually applied	55		1.9	3.1	0.2	2.0	3.9	0	10	
India	HS2002	TRAINS	2004	Bound	12	13	104.0	104.0	67.3	98.1	45.9	35	150	
India	HS2002	TRAINS	2004	MFN applied	100		31.2	30.6	45.3	30.0	9.2	30	100	
India	HS2002	TRAINS	2004	Actually applied	35		31.5	31.6	45.4	30.0	10.2	30	100	
Indonesia	HS2002	TRAINS	2004	Bound	100	100	40.4	40.5	62.6	40.0	4.4	40	95	
Indonesia	HS2002	TRAINS	2004	MFN applied	100		5.1	4.9	3.1	4.8	2.4	0	15	
Indonesia	HS2002	TRAINS	2004	Actually applied	76		4.6	4.5	3.0	4.6	1.8	0	15	
Iran	HS2002	TRAINS	2004	Bound	0	0								
Iran	HS2002	TRAINS	2004	MFN applied	100		20.5	20.0	22.5	27.5	13.2	4	70	
Iran	HS2002	TRAINS	2004	Actually applied	12		18.7	15.4	22.5	14.9	17.8	4	70	
Israel	HS2002	TRAINS	2002	Bound	4	26	58.9	58.9	21.8	28.5	65.5	4	170	37

								Tariff	Tariff average					HS6 lines
Country	HS version	Data source	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Israel	HS2002	TRAINS	2002	MFN applied	29		7.7	7.9	1.7	3.5	16.6	0	153	59
Israel	HS2002	TRAINS	2002	Actually applied	22		5.3	5.0	1.6	3.1	8.1	0	87	59
Jamaica	HS1996	TRAINS	2003	Bound	100	100	51.2	51.4	50.2	50.3	7.8	50	100	
Jamaica	HS1996	TRAINS	2003	MFN applied	100		56.6	27.9	16.7	29.6	17.5	0	75	
Jamaica	HS1996	TRAINS	2003	Actually applied	64		23.1	23.0	16.7	29.1	17.2	0	40	
Japan	HS2002	TRAINS	2004	Bound	90	91	5.3	5.1	4.3	4.3	3.2	0	21.3	1
Japan	HS2002	TRAINS	2004	MFN applied	100		0.9	5.9	4.5	6.9	3.8	0	25	
Japan	HS2002	TRAINS	2004	Actually applied	98		5.4	4.9	4.2	4.6	3.3	0	15	
Jordan	HS2002	WTO/IDB	2004	Bound	100	100	19.8	19.7	13.6	18.8	4.3	5	30	
Jordan	HS2002	WTO/IDB	2004	MFN applied	100		21.3	21.4	12.7	22.1	7.0	0	30	
Jordan	HS2002	TRAINS	2003	Actually applied	42		21.6	21.6	12.8	22.8	8.5	0	30	
Kenya	HS2002	TRAINS	2004	Bound	47	48	64.1	64.1	92.5	62.8	8.6	62	100	
Kenya	HS2002	TRAINS	2004	MFN applied	100		15.8	15.5	45.2	14.4	9.5	0	100	
Kenya	HS2002	TRAINS	2004	Actually applied	28		20.8	18.1	45.2	13.9	23.8	0	100	
Korea, Rep. of	HS2002	WTO/IDB	2004	Bound	53	54	15.4	15.1	13.1	15.2	5.9	4	36	
Korea, Rep. of	HS2002	WTO/IDB	2004	MFN applied	100		16.3	15.9	11.6	15.6	0.9	0	36	
Korea, Rep. of	HS2002	TRAINS	2002	Actually applied	91		15.1	14.4	11.9	15.4	5.3	8	30	
Kuwait	HS88/92	TRAINS	2002	Bound	100	100	100.0	100.0	100.0	100.0	0.0	100	100	
Kuwait	HS88/92	TRAINS	2002	MFN applied	100		0.0	0:0	0.0	0.0	0.4	0	4	
Kuwait	HS88/92	TRAINS	2002	Actually applied	1		0.0	0.0	0.0	0.0	0.0	0	0	
Kyrgyz Republic	HS2002	TRAINS	2003	Bound	100	100	10.1	10.1	10.0	10.1	1.5	0	20	
Kyrgyz Republic	HS2002	TRAINS	2003	MFN applied	100		10.0	10.0	8.5	6.6	6.0	0	15	
Kyrgyz Republic	HS2002	TRAINS	2003	Actually applied	26		10.0	9.8	8.5	9.8	9.0	5	15	
Lao PDR	HS88/92	TRAINS	2004	Bound	0	0								
Lao PDR	HS88/92	TRAINS	2004	MFN applied	100		16.5	16.5	23.1	15.8	7.2	2	30	
Lao PDR	HS88/92	TRAINS	2004	Actually applied	22		14.7	14.7	21.6	14.0	7.7	2	30	
Lebanon	HS2002	TRAINS	2002	Bound	0	0								
Lebanon	HS2002	TRAINS	2002	MFN applied	100		5.6	5.3	5.1	5.0	6.2	0	70	
Lebanon	HS2002	TRAINS	2002	Actually applied	09		5.4	5.3	5.1	5.0	3.6	0	70	
Lesotho	HS1996	TRAINS	2001	Bound	100	100	63.9	63.9	0.09	6.09	23.0	09	200	
Lesotho	HS1996	TRAINS	2001	MFN applied	56		18.5	16.9	0.0	17.5	11.2	0	30	-

								Tariff a	average					HS6 lines
Country	HS version	Data source Year	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Lesotho	HS1996	TRAINS	2001	Actually applied	1		0.0	0.0	0.0	0.0	0.0	0	0	1
Libyan Arab Jamahirava	HS1996	TRAINS	2002	Bound	0	0								
Libyan Arab Jamahiraya	HS1996	TRAINS	2002	MFN applied	100		6.6	6.2	9.5	6.2	28.2	0	200	
Libyan Arab Jamahirava	HS1996	TRAINS	2002	Actually applied	29		10.7	5.7	9.5	5.6	25.5	0	100	
Macao (SAR China)	HS2002	WTO/IDB	2004	Bound	-	3	0.0	0.0	0.0	0.0	0.0	0	0	
Macao (SAR China)	HS2002	WTO/IDB	2004	MFN applied	100		0.0	0.0	0.0	0.0	0.0	0	0	
Macedonia, FYR	HS2002	TRAINS	2004	Bound	0	0								
Macedonia, FYR	HS2002	TRAINS	2004	MFN applied	96		7.9	7.6	5.0	7.8	2.1	0	16.7	9
Macedonia, FYR	HS2002	TRAINS	2004	Actually applied	20		7.9	7.2	5.0	7.8	2.0	0	16.7	9
Madagascar	HS2002	WTO/IDB	2002	Bound	1	3	30.0	30.0		30.0	0.0	30	30	
Madagascar	HS2002	WTO/IDB	2002	MFN applied	66		2.9	2.9		3.3	3.9	0	15	
Madagascar	HS1996	TRAINS	2001	Actually applied	29		5.9	5.3	8.5	2.9	4.9	0	15	
Malawi	HS2002	WTO/IDB	2003	Bound	84	84	41.7	41.7		40.6	12.1	30	125	
Malawi	HS2002	WTO/IDB	2003	MFN applied	100		17.1	17.1		17.2	5.6	0	30	
Malawi	HS1996	TRAINS	2001	Actually applied	22		13.0	13.0	7.2	11.3	10.8	0	25	
Malaysia	HS1996	TRAINS	2003	Bound	26	56	11.0	8.2	12.3	10.3	12.1	0	54	
Malaysia	HS1996	TRAINS	2003	MFN applied	100		8.7	6.3	1.8	5.1	9.5	0	20	
Malaysia	HS1996	TRAINS	2003	Actually applied	84		6.1	3.8	0.9	3.4	8.5	0	20	
Maldives	HS2002	TRAINS	2003	Bound	-	m	30.0	30.0	30.0	30.0	0.0	30	30	
Maldives	HS2002	TRAINS	2003	MFN applied	100		16.0	16.0	15.7	15.8	3.6	0	35	
Maldives	HS2002	TRAINS	2003	Actually applied	43		15.8	16.2	15.7	15.4	3.0	10	35	
Mali	HS2002	TRAINS	2004	Bound	15	17	11.9	12.2	8.2	9.5	16.5	0	09	
Mali	HS2002	TRAINS	2004	MFN applied	100		14.5	14.5	16.2	16.8	5.1	2	20	
Mali	HS2002	TRAINS	2004	Actually applied	20		18.0	17.9	16.2	17.9	4.0	10	20	
Mauritania	HS1996	TRAINS	2001	Bound	25	27	17.6	17.6	7.0	18.6	14.4	0	20	
Mauritania	HS1996	WTO/IDB	2001	MFN applied	100		19.9	19.7	13.3	19.9	1.1	2	20	
Mauritania	HS1996	TRAINS	2001	Actually applied	4		16.5	14.0	5.6	20.0	6.4	2	20	
Mauritius	HS2002	TRAINS	2002	Bound	-	m	122.0	122.0	122.0	122.0	0.0	122	122	
Mauritius	HS2002	TRAINS	2002	MFN applied	100		12.4	11.9	6.5	10.3	19.4	0	80	
Mauritius	HS2002	TRAINS	2002	Actually applied	28		17.3	16.5	6.5	17.7	20.5	0	80	

								Tariff 6	Tariff average					HS6 lines
Country	HS version	Data source Year	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Mexico	HS2002	TRAINS	2004	Bound	100	100	35.0	35.0	34.8	34.9	1.7	30	45	
Mexico	HS2002	TRAINS	2004	MFN applied	100		26.1	27.4	27.0	26.5	7.3	0	30	
Mexico	HS2002	TRAINS	2004	Actually applied	70		18.3	18.4	13.3	18.5	12.3	0	30	
Moldova	HS1996	TRAINS	2001	Bound	0	100								44
Moldova	HS1996	TRAINS	2001	MFN applied	100		5.8	5.8	4.5	6.3	5.8	0	15	
Moldova	HS1996	TRAINS	2001	Actually applied	33		4.0	4.0	4.5	5.9	5.4	0	15	
Mongolia	HS2002	WTO/IDB	2004	Bound	100	100	20.0	20.0		20.0	0.5	15	20	
Mongolia	HS2002	WTO/IDB	2004	MFN applied	100		5.0	2.0		5.0	0.0	5	2	
Morocco	HS2002	TRAINS	2003	Bound	100	100	40.9	41.4	148.0	40.1	12.3	10	168	
Morocco	HS2002	TRAINS	2003	MFN applied	100		49.4	49.4	37.1	48.9	9.6	17.5	109	
Morocco	HS2002	TRAINS	2003	Actually applied	47		49.9	49.4	37.1	48.9	9.9	17.5	109	
Mozambique	HS2002	TRAINS	2003	Bound	100	100	100.0	100.0	100.0	100.0	0.0	100	100	
Mozambique	HS2002	TRAINS	2003	MFN applied	100		24.0	24.2	9.8	23.8	4.4	0	25	
Mozambique	HS2002	TRAINS	2003	Actually applied	45		23.1	23.5	9.6	22.7	6.2	0	25	
Myanmar	HS1996	TRAINS	2004	Bound	5	9	61.6	68.2	38.9	90.6	51.4	22	165	
Myanmar	HS1996	TRAINS	2004	MFN applied	100		7.7	8.0	5.7	9.0	4.0	0	15	
Myanmar	HS1996	TRAINS	2004	Actually applied	30		4.7	4.9	4.3	0.9	3.1	0	10	
Namibia	HS2002	WTO/IDB	2002	Bound	-	1	37.0	37.0		37.0	0.0	37	37	
Namibia	HS2002	WTO/IDB	2002	MFN applied	29		0.9	4.8		5.3	7.6	0	24	
Namibia	HS1996	TRAINS	2001	Actually applied	09		12.9	7.8	5.5	4.8	12.5	0	30	27
Nepal	HS2002	TRAINS	2004	Bound	0	0								
Nepal	HS2002	TRAINS	2004	MFN applied	100		11.2	11.0	21.1	11.1	4.2	10	40	
Nepal	HS2002	TRAINS	2004	Actually applied	20		14.2	13.1	21.1	12.2	7.9	10	40	
New Zealand	HS2002	TRAINS	2004	Bound	100	100	2.6	1.5	1.8	1.7	5.8	0	22	
New Zealand	HS2002	TRAINS	2004	MFN applied	100		6.0	0.5	8.0	0.7	2.2	0	7	
New Zealand	HS2002	TRAINS	2004	Actually applied	57		1.0	0.7	0.4	9.0	2.0	0	7	
Nicaragua	HS2002	TRAINS	2004	Bound	100	100	41.4	40.8	40.9	40.0	8.1	40	100	
Nicaragua	HS2002	TRAINS	2004	MFN applied	100		6.6	9.6	14.2	10.9	6.5	0	55	
Nicaragua	HS2002	TRAINS	2004	Actually applied	36		10.4	10.0	7.3	10.4	6.2	0	15	
Niger	HS2002	TRAINS	2004	Bound	100	100	44.9	44.9	34.7	44.2	21.2	0	200	
Niger	HS2002	TRAINS	2004	MFN applied	100		14.5	14.5	16.8	16.8	5.1	5	20	

								Tariff a	Tariff average					HS6 lines
Country	HS version	Data source Year	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Niger	HS2002	TRAINS	2004	Actually applied	13		17.9	17.6	16.8	18.0	4.1	10	20	
Nigeria	HS1996	WTO/IDB	2003	Bound	3	5	110.0	110.0		78.4	49.0	20	150	
Nigeria	HS1996	WTO/IDB	2003	MFN applied	100		31.3	28.1		32.7	28.2	2	100	
Nigeria	HS1996	TRAINS	2002	Actually applied	46		18.4	18.4	7.5	31.6	29.2	2	100	
Norway	HS2002	WTO/IDB	2004	Bound	100	100	0.1	0.1	0.4	0.0	9.0	0	5.1	5
Norway	HS2002	WTO/IDB	2004	MFN applied	100		0.0	0.0	0.0	0.0	0.0	0	0	
Norway	HS2002	TRAINS	2003	Actually applied	84		0.0	0.0	0.0	0.0	0.0	0	0	4
Oman	HS1996	TRAINS	2002	Bound	100	100	19.5	19.5	21.0	18.5	6.3	2	75	
Oman	HS1996	TRAINS	2002	MFN applied	100		13.5	13.5	14.4	14.2	3.7	0	15	
Oman	HS1996	TRAINS	2002	Actually applied	49		13.8	13.8	14.4	14.3	3.7	0	15	
Pakistan	HS2002	TRAINS	2004	Bound	6	10	103.6	104.2	100.0	100.0	12.9	100	150	
Pakistan	HS2002	TRAINS	2004	MFN applied	100		12.2	12.1	13.3	11.9	5.4	2	25	
Pakistan	HS2002	TRAINS	2004	Actually applied	15		15.9	15.6	13.3	12.6	7.1	2	25	
Panama	HS1996	WTO/IDB	2002	Bound	0	0								
Panama	HS1996	WTO/IDB	2002	MFN applied	100		13.9	14.7	8.2	13.1	12.5	0	151	
Panama	HS1996	TRAINS	2001	Actually applied	45		10.2	11.3	7.7	12.7	6.0	-	9/	
Papua New Guinea	HS2002	TRAINS	2005	Bound	100	100	54.1	54.1	54.2	53.8	6.1	11	75	
Papua New Guinea	HS2002	TRAINS	2002	MFN applied	100		27.8	27.9	26.2	27.0	8.8	0	70	
Papua New Guinea	HS2002	TRAINS	2005	Actually applied	43		25.0	24.0	26.2	26.4	10.9	0	70	
Paraguay	HS2002	WTO/IDB	2004	Bound	100	100	34.8	34.8	34.6	34.9	1.7	15	35	
Paraguay	HS2002	TRAINS	2004	MFN applied	100		11.5	11.7	15.1	10.4	3.3	1.5	30	
Paraguay	HS2002	TRAINS	2004	Actually applied	23		6.0	7.7	6.3	5.7	6.7	0	17.5	
Peru	HS2002	TRAINS	2004	Bound	100	100	30.3	30.2	31.8	30.0	3.0	30	89	
Peru	HS2002	TRAINS	2004	MFN applied	100		12.1	12.1	12.4	12.0	1.1	4	20	
Peru	HS2002	TRAINS	2004	Actually applied	50		9.3	9.0	4.2	7.7	4.8	0	20	
Philippines	HS2002	WTO/IDB	2004	Bound	4	5	33.8	35.8		17.0	22.9	2	80	
Philippines	HS2002	WTO/IDB	2004	MFN applied	100		8.9	8.5		9.6	6.7	1	65	
Philippines	HS1996	TRAINS	2003	Actually applied	58		5.1	5.2	4.4	5.7	1.5	3	7	
Qatar	HS2002	WTO/IDB	2004	Bound	100	100	15.0	15.0		15.0	0.5	15	20	
Qatar	HS2002	WTO/IDB	2004	MFN applied	100		3.1	3.3		3.3	2.4	0	5	
Qatar	HS88/92	TRAINS	2002	Actually applied	27		4.0	4.0	4.0	4.0	0.0	4	4	

								Tariff a	Tariff average					HS6 lines
Country	HS version	Data source	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Romania	HS2002	TRAINS	2004	Bound	100	100	29.1	30.1	113.2	30.3	15.0	20	180	
Romania	HS2002	TRAINS	2004	MFN applied	100		21.5	21.5	41.7	20.3	4.2	0	09	
Romania	HS2002	TRAINS	2004	Actually applied	82		19.7	19.2	40.8	19.0	6.1	0	09	
Russian Federation	HS2002	TRAINS	2002	Bound	0	0								
Russian Federation	HS2002	TRAINS	2002	MFN applied	92		10.6	10.6	10.3	10.5	1.8	2	20	10
Russian Federation	HS2002	TRAINS	2002	Actually applied	78		10.8	11.0	10.3	10.5	1.9	2	20	10
Rwanda	HS1996	WTO/IDB	2003	Bound	100	100	86.2	86.4	78.0	94.9	33.8	0	100	
Rwanda	HS1996	TRAINS	2003	MFN applied	100		12.2	12.2	24.4	17.4	9.7	0	25	
Rwanda	HS1996	TRAINS	2003	Actually applied	13		15.1	15.3	9.1	21.3	10.3	1	25	
Saudi Arabia	HS2002	TRAINS	2004	Bound	0	0								
Saudi Arabia	HS2002	TRAINS	2004	MFN applied	100		3.3	3.4	4.7	3.3	3.0	0	25	
Saudi Arabia	HS2002	TRAINS	2004	Actually applied	78		3.6	3.6	4.7	3.3	3.5	0	25	
Senegal	HS2002	TRAINS	2004	Bound	100	100	30.0	30.0	30.0	30.0	0.0	30	30	
Senegal	HS2002	TRAINS	2004	MFN applied	100		14.5	14.5	18.8	16.8	5.1	2	20	
Senegal	HS2002	TRAINS	2004	Actually applied	35		17.6	17.6	18.8	18.1	4.3	10	20	
Seychelles	HS88/92	TRAINS	2001	Bound	0	0								
Seychelles	HS88/92	TRAINS	2001	MFN applied	66		84.4	84.4	93.1	87.5	29.2	0	100	
Seychelles	HS88/92	TRAINS	2001	Actually applied	21		48.4	48.4	93.1	70.6	31.0	15	100	
Sierra Leone	HS2002	WTO/IDB	2004	Bound	100	100	49.7	49.7		49.9	1.6	40	20	
Sierra Leone	HS2002	WTO/IDB	2004	MFN applied	100		16.8	16.7		18.0	4.8	2	20	
Singapore	HS2002	TRAINS	2004	Bound	100	100	9.6	10.0	9.6	9.6	0.8	0	10	
Singapore	HS2002	TRAINS	2004	MFN applied	100		0.0	0.0	0.0	0.0	0.0	0	0	
Singapore	HS2002	TRAINS	2004	Actually applied	06		0.0	0.0	0.0	0.0	0.0	0	0	
South Africa	HS2002	WTO/IDB	2002	Bound	-	-	37.0	37.0		37.0	0.0	37	37	
South Africa	HS2002	WTO/IDB	2002	MFN applied	29		0.9	4.8		5.3	7.6	0	24	
South Africa	HS1996	TRAINS	2001	Actually applied	36		16.6	12.0	15.5	17.1	11.9	0	30	46
Sri Lanka	HS2002	TRAINS	2004	Bound	97	97	50.0	50.0	50.0	50.0	0.0	50	20	
Sri Lanka	HS2002	TRAINS	2004	MFN applied	100		12.5	12.8	11.3	13.2	4.3	n	27.5	
Sri Lanka	HS2002	TRAINS	2004	Actually applied	20		10.7	11.8	9.3	12.2	4.2	0	27.5	
St. Kitts and Nevis	HS1996	TRAINS	2003	Bound	-	٣	107.5	110.0	103.5	100.0	13.0	100	130	
St. Kitts and Nevis	HS1996	TRAINS	2003	MFN applied	100		11.2	11.9	10.1	14.9	12.6	0	40	

925		tar tar	Simple, 6-digit 12.4 113.0 28.3 22.0 121.3 27.1 17.5 44.0 44.0 30.9	Import weighted 10.1 10.1 96.8 23.5 23.5 23.5 21.3 21.3 21.3 21.3 21.0 21.0 30.6 30.6	Weighted by world imports 16.4 111.3 30.1 30.3 118.6 29.9 28.6 44.0 44.0	Standard deviation 13.4 27.4 17.9 17.6 13.7 17.3 17.3 15.8 8.3	Minimum  0  0  0  0  0  0  0  0  100  0	Maximum 40 45 45 45 46 40 40 45 45 45 45 45	w/imports subject to subject to specific tariffs tariffs 1
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HS1996         TRAINS         2000         MFN applied           HS1996         TRAINS         2000         Actually applied           HS2002         WTO/IDB         2002         Bound           HS2002         WTO/IDB         2002         MFN applied           HS2002         TRAINS         2001         Actually applied           HS2002         TRAINS         2005         Bound           HS2002         TRAINS         2005         Actually applied           HS2002         TRAINS         2005         Actually applied           HS1996         TRAINS         2002         Bound           HS1996         TRAINS         2002         MFN applied           HS1996         TRAINS         2002         MFN applied	21	29.3	30.9	30.6	1		10	40	12
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HS2002         WTO/IDB         2002         Bound           HS2002         WTO/IDB         2002         MFN applied           HS1996         TRAINS         2001         Actually applied           HS2002         TRAINS         2005         Bound           HS2002         TRAINS         2005         MFN applied           HS2002         TRAINS         2005         Actually applied           HS1996         TRAINS         2002         Bound           HS1996         TRAINS         2002         MFN applied		22.8	20.2	30.6	28.7	15.9	0	40	12
HS2002         WTO/IDB         2002         MFN applied           HS1996         TRAINS         2001         Actually applied           HS2002         TRAINS         2005         MFN applied           HS2002         TRAINS         2005         Actually applied           HS1996         TRAINS         2002         Actually applied           HS1996         TRAINS         2002         MFN applied           HS1996         TRAINS         2002         MFN applied		37.0	37.0		37.0	0.0	37	37	
HS1996         TRAINS         2001         Actually applied           HS2002         TRAINS         2005         Bound           HS2002         TRAINS         2005         MFN applied           HS2002         TRAINS         2005         Actually applied           HS1996         TRAINS         2002         Bound           HS1996         TRAINS         2002         MFN applied		5.8	4.6		5.3	7.5	0	24	
HS2002         TRAINS         2005         Bound           HS2002         TRAINS         2005         MFN applied           HS2002         TRAINS         2005         Actually applied           HS1996         TRAINS         2002         Bound           HS1996         TRAINS         2002         MFN applied		3.0	1.8	1.4	2.3	8.1	0	25	7
HS2002         TRAINS         2005         MFN applied           HS2002         TRAINS         2005         Actually applied           HS1996         TRAINS         2002         Bound           HS1996         TRAINS         2002         MFN applied	79 100	0.0	0.0	0.0	0.0	0.0	0	0	36
HS2002         TRAINS         2005         Actually applied           HS1996         TRAINS         2002         Bound           HS1996         TRAINS         2002         MFN applied		0.0	0.0	0.0	0.0	0.0	0	0	31
HS1996 TRAINS 2002 Bound HS1996 TRAINS 2002 MFN applied		0.0	0.0	0.0	0.0	0.0	0	0	31
HS1996 TRAINS 2002 MFN applied	0 0								
3333	100 pa	13.9	14.2	1.0	15.5	22.3	_	100	
Syrian Arab Republic HS1996 TRAINS 2002 Actually applied 3		1.0	1.0	1.0	1.0	0.0	_	-	
Taiwan Prov. of China HS1996 TRAINS 2003 Bound 0	0 0								
Taiwan Prov. of China HS1996 TRAINS 2003 MFN applied 96		27.6	56.9	35.3	33.8	24.0	0	156	22
Taiwan Prov. of China HS1996 TRAINS 2003 Actually applied 73		26.2	23.8	35.3	25.1	22.7	0	156	22
Tajikistan HS1996 TRAINS 2002 Bound 0	0 0								
Tajikistan HS1996 TRAINS 2002 MFN applied 100		10.6	10.6		10.8	1.8	5	15	
Tanzania HS1996 TRAINS 2003 Bound 1	1 3	120.0	120.0	120.0	120.0	0.0	120	120	
Tanzania (United Rep. HS1996   TRAINS   2003   MFN applied 100 of)		24.1	24.4	25.0	4.8	4.1	0	25	

								Tariff a	Tariff average					HS6 lines
Country	HS version	Data source Year	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Tanzania (United Rep. of)	HS1996	TRAINS	2003	Actually applied	26		23.9	23.8	24.9	24.0	4.4	2	25	
Thailand	HS2002	TRAINS	2003	Bound	88	96	10.1	9.6	6.2	7.4	12.3	5	94	6
Thailand	HS2002	TRAINS	2003	MFN applied	100		10.6	10.1	5.2	9.2	9.4	1	40	
Thailand	HS2002	TRAINS	2003	Actually applied	78		7.7	7.1	5.1	8.1	7.3	0	30	
Togo	HS2002	TRAINS	2004	Bound	1	8	80.0	80.0	80.0	80.0	0.0	80	80	
Togo	HS2002	TRAINS	2004	MFN applied	100		14.5	14.5	12.8	16.8	5.1	2	20	
Togo	HS2002	TRAINS	2004	Actually applied	25		16.3	16.0	12.8	18.2	4.8	10	20	
Trinidad and Tobago	HS2002	WTO/IDB	2004	Bound	100	100	51.2	51.3		50.3	7.8	50	100	
Trinidad and Tobago	HS2002	WTO/IDB	2004	MFN applied	100		27.2	28.8		30.1	16.8	0	40	
Trinidad and Tobago	HS1996	TRAINS	2003	Actually applied	50		22.9	24.5	27.9	29.7	16.2	0	40	
Tunisia	HS2002	TRAINS	2004	Bound	80	10	79.5	79.5	9.66	59.1	56.3	17	180	
Tunisia	HS2002	TRAINS	2004	MFN applied	100		41.3	40.7	25.6	40.9	14.2	0	180	
Tunisia	HS2002	TRAINS	2004	Actually applied	52		41.6	40.0	25.4	42.0	4.9	0	43	
Turkey	HS2002	TRAINS	2003	Bound	19	21	6.99	8.09	9.8	9.99	35.2	4.3	180	
Turkey	HS2002	TRAINS	2003	MFN applied	100		48.2	48.6	31.2	50.8	20.8	0	150	
Turkey	HS2002	TRAINS	2003	Actually applied	41		33.2	33.1	14.8	33.2	19.3	0	136.5	
Turkmenistan	HS1996	TRAINS	2002	Bound	0	0								
Turkmenistan	HS1996	TRAINS	2002	MFN applied	100		2.8	2.5	2.7	3.1	8.7	0	30	
Turkmenistan	HS1996	TRAINS	2002	Actually applied	35		6.3	7.5	2.7	4.4	12.2	0	30	
Uganda	HS2002	TRAINS	2004	Bound	11	12	26.0	55.4	76.0	50.4	12.0	50	80	
Uganda	HS2002	TRAINS	2004	MFN applied	100		14.8	14.8	13.2	14.9	1.3	7	15	
Uganda	HS2002	TRAINS	2004	Actually applied	18		12.4	12.4	7.5	14.2	4.2	4	15	
Ukraine	HS1996	TRAINS	2002	Bound	0	0								
Ukraine	HS1996	TRAINS	2002	MFN applied	46		10.6	11.1	27.0	10.1	7.2	0	20	34
Ukraine	HS1996	TRAINS	2002	Actually applied	39		9.0	10.0	27.0	6.6	5.8	0	20	27
United States	HS2002	TRAINS	2005	Bound	96	100	2.1	1.0	1.4	1.3	4.6	0	35	7
United States	HS2002	TRAINS	2005	MFN applied	96		2.0	1.0	1.5	1.3	4.4	0	35	7
United States	HS2002	TRAINS	2005	Actually applied	100		1.4	8.0	0.8	8.0	4.0	0	35	7
Uruguay	HS2002	TRAINS	2004	Bound	100	100	35.2	35.2	35.0	35.0	1.8	35	55	
Uruguay	HS2002	TRAINS	2004	MFN applied	100		11.7	11.5	9.7	11.8	2.9	0	17.5	

								Tariff a	Tariff average					HS6 lines
Country	HS version	Data source	Year	Tariff type	Data coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	w/imports subject to specific tariffs
Uruguay	HS2002	TRAINS	2004	Actually applied	38		8.6	9.4	3.9	8.2	5.6	0	17.5	
Uzbekistan	HS1996	TRAINS	2001	Bound	0	0								
Uzbekistan	HS1996	TRAINS	2001	MFN applied	100		0.0	0.0	0.0	0.0	0.0	0	0	
Uzbekistan	HS1996	TRAINS	2001	Actually applied	22		0.0	0.0	0.0	0.0	0.0	0	0	
Vanuatu	HS1996	TRAINS	2002	Bound	0	0								
Vanuatu	HS1996	TRAINS	2002	MFN applied	100		28.1	28.1	25.6	27.7	5.9	0	30	
Vanuatu	HS1996	TRAINS	2002	Actually applied	23		27.1	27.1	25.6	28.5	5.4	0	30	
Venezuela (Bol. Rep. of)	HS1996	TRAINS	2004	Bound	100	100	9.98	35.9	70.0	34.0	13.9	20	117	
Venezuela (Bol. Rep. of)	HS1996	TRAINS	2004	MFN applied	100		18.3	19.0	19.6	19.4	4.2	5	20	
Venezuela (Bol. Rep. of)	HS1996	TRAINS	2004	Actually applied	49		15.1	15.8	18.2	16.5	6.7	0	20	
Viet Nam	HS2002	TRAINS	2004	Bound	0	0								
Viet Nam	HS2002	TRAINS	2004	MFN applied	66		32.2	31.6	28.7	32.5	10.5	0	20	1
Viet Nam	HS2002	TRAINS	2004	Actually applied	74		26.9	26.3	56.6	27.0	14.9	0	20	-
Yemen	HS1996	TRAINS	2000	Bound	0	0								
Yemen	HS1996	TRAINS	2000	MFN applied	100		22.5	23.1	6.2	22.9	4.7	2	25	
Yemen	HS1996	TRAINS	2000	Actually applied	25		17.6	17.1	6.2	21.0	6.9	5	25	
Yugoslavia	HS1996	TRAINS	2002	Bound	0	0								
Yugoslavia	HS1996	TRAINS	2002	MFN applied	100		12.6	12.4	7.5	14.3	7.3	-	30	
Yugoslavia	HS1996	TRAINS	2002	Actually applied	99		14.1	13.5	7.5	14.9	8.4	_	30	
Zambia	HS2002	TRAINS	2002	Bound	-	٣	125.0	125.0	125.0	125.0	0.0	125	125	
Zambia	HS2002	TRAINS	2002	MFN applied	100		22.7	23.1	13.7	23.3	5.7	0	25	
Zambia	HS2002	TRAINS	2002	Actually applied	35		16.3	17.0	7.9	19.0	10.5	0	25	
Zimbabwe	HS2002	TRAINS	2003	Bound	73	76	6.5	6.9	29.0	3.6	25.7	0	150	
Zimbabwe	HS2002	TRAINS	2003	MFN applied	100		15.2	12.0	19.8	16.0	18.4	0	40	
Zimbabwe	HS2002	TRAINS	2003	Actually applied	33		17.7	16.5	19.8	17.2	18.4	0	40	

TABLE A2B: Tariff data, country averages for seafood: countries that became EU members in May 2004

					į			Tariff a	Tariff average					HS6 lines
Country	HS version	Data source	Year	Tariff type	coverage percent	Percent of tariffs bound	Simple, tariff line	Simple, 6-digit	Import weighted	Weighted by world imports	Standard deviation	Minimum	Maximum	subject to specific tariffs
Cyprus	HS2002	TRAINS	2002	Bound	100	100	40.0	40.0	40.0	40.0	1.2	30	20	
Cyprus	HS2002	TRAINS	2002	MFN applied	72		10.4	14.1	4.4	14.9	21.5	0	100	17
Cyprus	HS2002	TRAINS	2002	Actually applied	28		5.2	9.6	4.4	14.5	13.8	0	100	16
Czech Republic	HS2002	TRAINS	2003	Bound	100	100	0.5	6.0	2.9	0.0	4.9	0	89	
Czech Republic	HS2002	TRAINS	2003	MFN applied	100		0.5	6.0	2.9	0.0	5.1	0	89	
Czech Republic	HS2002	TRAINS	2003	Actually applied	88		0.2	8.0	2.9	0.0	3.6	0	89	
Estonia	HS1996	TRAINS	2003	Bound	100	100	16.2	16.8	15.6	16.1	6.3	0	30	
Estonia	HS1996	TRAINS	2003	MFN applied	100		3.1	3.5	2.7	4.3	8.2	0	27	
Estonia	HS1996	TRAINS	2003	Actually applied	76		3.6	6.2	2.7	4.6	8.7	0	27	
Hungary	HS2002	TRAINS	2002	Bound	37	38	19.6	23.1	10.0	19.4	9.6	0	89	
Hungary	HS2002	TRAINS	2002	MFN applied	100		15.2	17.2	9.6	17.7	10.4	0	89	
Hungary	HS2002	TRAINS	2002	Actually applied	62		12.6	17.7	9.6	18.0	9.1	0	89	
Latvia	HS2002	WTO/IDB	2002	Bound	100	100	34.8	35.3	29.6	29.0	16.3	2	55	
Latvia	HS2002	WTO/IDB	2002	MFN applied	100		11.7	11.1	7.5	14.4	10.0	0	40	
Latvia	HS1996	TRAINS	2001	Actually applied	75		8.2	8.5	6.4	8.9	6.9	0	30	
Lithuania	HS2002	TRAINS	2003	Bound	100	100	14.0	13.0	9.4	11.2	7.0	0	30	
Lithuania	HS2002	TRAINS	2003	MFN applied	100		3.9	4.4	3.1	4.4	6.6	0	32.5	
Lithuania	HS2002	TRAINS	2003	Actually applied	75		1.1	1.9	0.2	1.7	5.6	0	35	
Malta	HS2002	TRAINS	2003	Bound	2	4	12.5	12.5	21.3	5.2	12.5	0	25	-
Malta	HS2002	TRAINS	2003	MFN applied	100		3.9	4.1	6.9	7.0	6.7	0	25	
Malta	HS2002	TRAINS	2003	Actually applied	65		4.9	7.3	6.9	7.5	7.3	0	25	
Poland	HS2002	TRAINS	2003	Bound	5	7	26.4	30.9	14.1	15.5	28.2	5	102	
Poland	HS2002	TRAINS	2003	MFN applied	2		33.4	39.0	14.2	15.5	33.9	5	102	52
Poland	HS2002	TRAINS	2003	Actually applied	47		6.1	6.5	5.4	7.1	6.7	0	96	26
Slovak Republic	HS2002	WTO/IDB	2003	Bound	100	100	0.5	6.0	8.0	0.0	4.9	0	89	
Slovak Republic	HS2002	TRAINS	2002	MFN applied	100		6.9	7.8	9.5	7.4	6.5	0	80	
Slovak Republic	HS2002	TRAINS	2002	Actually applied	29		6.2	7.4	9.5	7.6	4.1	0	80	
Slovenia	HS2002	TRAINS	2003	Bound	96	100	23.7	21.5	26.4	23.3	8.5	0	45	m
Slovenia	HS2002	WTO/IDB	2003	MFN applied	100		7.4	7.6	14.7	7.5	8.9	0	45	
Slovenia	HS2002	TRAINS	2003	Actually applied	74		4.3	5.2	8.3	5.0	7.5	0	45	

TABLE A3A: Water in the tariffs: simulation of tariff cuts for seafood, changes in bound rates

					ed tariff avera	ide for seafo	MFN applied tariff average for seafood after tariff reduction	duction	Percentage r	eduction in N	1FN applied t	Percentage reduction in MFN applied tariff average for seafood	for seafood
Income level	Country	Number of obser-	Bound tariff level before		Proportional cut	,	Swiss formula		Proporti	Proportional cut	:	Swiss formula	
	•		cuts	8	40 percent	A=30	A=20	A=10	30 percent	40 percent	A=30	A=20	A=10
	Brunei	113	20.9	14.6	12.5	12.3	10.2	6.7	30	40	41	51	89
	Hong Kong (SAR China)	113	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	Norway	113	0.0	0.0	0.0	0.0	0.0	0.0	30	40	9	6	16
	New Zealand	113	1.5	1.0	6.0	1.1	1.0	8.0	30	40	24	32	47
	Qatar	113	15.0	10.5	9.0	10.0	8.6	0.9	30	40	33	43	09
	Singapore	113	10.0	7.0	6.0	7.5	9.9	5.0	30	40	25	33	20
	Canada	112	1.2	8.0	0.7	1.0	6.0	0.7	30	40	16	22	36
High income	Iceland	108	3.3	2.3	2.0	1.5	1.3	6.0	30	40	55	61	72
	Australia	107	0.7	0.5	0.4	9.0	0.5	0.4	30	40	15	21	35
	European Union	106	11.8	8.3	7.1	7.9	6.9	4.9	30	40	33	42	58
	Kuwait	106	100.0	70.0	0.09	23.1	16.7	9.1	30	40	77	83	91
	United States	106	1.0	0.7	9.0	6.0	8.0	0.7	30	40	15	21	34
	Switzerland	68	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	Japan	85	4.8	3.4	2.9	4.0	3.7	3.1	30	40	17	23	37
	Korea, Rep. of	29	14.7	10.3	8.8	9.6	8.2	5.7	30	40	35	45	61
	Chile	113	25.0	17.5	15.0	13.6	11.1	7.1	30	40	45	26	71
	Costa Rica	113	46.1	32.2	27.6	18.1	13.9	8.2	30	40	61	70	82
	Mexico	113	34.9	24.5	21.0	16.1	12.7	7.8	30	40	54	64	78
	Trinidad and Tobago	113	50.4	35.3	30.3	18.8	14.3	8.3	30	40	63	72	83
	Uruguay	113	35.0	24.5	21.0	16.2	12.7	7.8	30	40	54	64	78
	Argentina	109	35.0	24.5	21.0	16.2	12.7	7.8	30	40	54	64	78
Upper middle	Croatia	109	8'9	4.7	4.1	5.3	4.8	3.8	30	40	22	29	44
	Venezuela (Bol. Rep. of)	106	34.5	24.1	20.7	16.0	12.6	7.7	30	40	54	63	78
	Grenada	105	5'05	35.3	30.3	18.8	14.3	8.3	30	40	63	72	83
	Oman	100	19.9	13.9	11.9	11.9	10.0	9.9	30	40	40	20	29
	St. Lucia	84	113.0	79.1	8.79	23.3	16.8	9.1	30	40	62	85	92
	St. Vincent / the Grenadines	77	121.5	85.0	72.9	24.0	17.1	9.2	30	40	80	98	92
	Malaysia	49	1.7	5.4	4.6	4.5	3.8	2.5	30	40	41	51	29

		, odaniN	Hind tour	MFN applie	MFN applied tariff average for seafood after tariff reduction	je for seafoc	od after tariff	reduction	Percentage	Percentage reduction in MFN applied tariff average for seafood	FN applied t	ariff average	for seafood
Income level	Country	of obser-	level before	Proporti	Proportional cut	8	Swiss formula		Proporti	Proportional cut	01	Swiss formula	
		vations	cuts	30 percent	40 percent	A=30	A=20	A=10	30 percent	40 percent	A=30	A=20	A=10
	Bulgaria	113	30.4	21.2	18.2	14.5	11.5	7.2	30	40	52	62	9/
	Bolivia	113	40.0	28.0	24.0	17.1	13.3	8.0	30	40	57	29	80
	Brazil	113	33.6	23.5	20.1	15.6	12.3	7.6	30	40	53	63	77
	Colombia	113	37.5	26.2	22.5	16.4	12.9	7.8	30	40	26	99	79
	Ecuador	113	28.9	20.2	17.3	14.7	11.8	7.4	30	40	49	59	74
	Honduras	113	34.7	24.3	20.8	16.1	12.7	7.8	30	40	54	63	78
	Indonesia	113	40.0	28.0	24.0	17.1	13.3	8.0	30	40	57	67	80
	Peru	113	30.0	21.0	18.0	15.0	12.0	7.5	30	40	50	09	75
	Paraguay	113	34.8	24.4	20.9	16.1	12.7	7.8	30	40	54	64	78
	Romania	113	27.9	19.5	16.8	14.2	11.4	7.3	30	40	49	59	74
Lower middle	El Salvador	113	45.3	31.7	27.2	17.9	13.8	8.2	30	40	09	70	82
income	Sri Lanka	110	50.0	35.0	30.0	18.8	14.3	8.3	30	40	63	71	83
	Armenia	106	15.0	10.5	9.0	10.0	8.6	6.0	30	40	33	43	09
	Djibouti	106	40.0	28.0	24.0	17.1	13.3	8.0	30	40	57	29	80
	Dominican Republic	106	39.9	27.9	23.9	17.1	13.3	8.0	30	40	57	29	80
	Guyana	106	50.5	35.3	30.3	18.8	14.3	8.3	30	40	63	72	83
	Jamaica	106	50.5	35.3	30.3	18.8	14.3	8.3	30	40	63	72	83
	Egypt	104	28.0	19.6	16.8	12.3	6.6	6.4	30	40	26	65	77
	Guatemala	103	40.4	28.3	24.2	17.2	13.4	8.0	30	40	57	29	80
	Thailand	66	8.8	6.2	5.3	0.9	5.3	4.0	30	40	32	40	54
	China	93	11.2	7.9	6.7	8.1	7.1	5.2	30	40	28	37	54
	Jordan	88	19.8	13.8	11.9	11.8	9.8	9.9	30	40	40	20	29

		Number	Bound tariff	MFN applie	MFN applied tariff average for seafood after tariff reduction	ge for seafo	od after tarif	reduction	Percentage r	Percentage reduction in MFN applied tariff average for seafood	IFN applied t	ariff average	for seafood
Income level	Country	of obser-	level before	Proportional cut	onal cut	V,	Swiss formula		Proportional cut	onal cut	S	Swiss formula	
		vations	cuts	30 percent	40 percent	A=30	A=20	A=10	30 percent	40 percent	A=30	A=20	A=10
	Guinea-Bissau	113	49.9	34.9	29.9	18.7	14.3	8.3	30	40	62	71	83
	Kyrgyz Republic	113	10.2	7.1	6.1	7.6	6.7	5.0	30	40	25	34	51
	Mongolia	113	20.0	14.0	12.0	12.0	10.0	6.7	30	40	40	20	29
	Mozambique	113	100.0	70.0	0.09	23.1	16.7	9.1	30	40	77	83	91
	Nicaragua	113	40.0	28.0	24.0	17.1	13.3	8.0	30	40	22	29	80
	Papua New Guinea	113	53.9	37.8	32.4	19.2	14.5	8.4	30	40	64	73	84
	Senegal	113	30.0	21.0	18.0	15.0	12.0	7.5	30	40	20	09	75
	Sierra Leone	113	49.9	34.9	29.9	18.7	14.3	8.3	30	40	62	71	83
בסא וווכסוווע	Congo, Dem. Rep.	113	93.0	65.1	55.8	22.1	16.1	6.8	30	40	9/	83	06
	Angola	106	0.09	42.0	36.0	20.0	15.0	9.8	30	40	<b>29</b>	75	98
	Niger	6	20.0	35.0	30.0	18.8	14.3	8.3	30	40	63	71	83
	Malawi	92	40.9	28.6	24.5	17.2	13.4	8.0	30	40	28	29	80
	Rwanda	93	99.3	69.5	59.6	23.0	16.6	9.1	30	40	77	83	91
	Lesotho	59	61.3	42.9	36.8	20.1	15.0	9.8	30	40	29	75	86
	Kenya	53	62.7	43.9	37.6	20.3	15.2	9.8	30	40	89	76	86
	Zimbabwe	40	3.8	2.6	2.3	0.6	0.4	0.2	30	40	83	88	94

TABLE A3B: Water in the tariffs: simulation of tariff cuts for seafood, changes in MFN applied rates

Income level			Tariff level before	before cuts	MFN applied	MFN applied tariff average for seafood after tariff reduction	e for seafo	od after tarif	f valuation	Lercente	rercentage reduction in MrN applied tarill average for	m MrN appi	led tariii ave	age lor
Income level									Leancilon			seafood		
	Country	Number of obser- vations	Bound	MFN applied	Proportional cut	nal cut	S	Swiss formula	_	Proporti	Proportional cut	5	Swiss formula	
					30 percent	40 percent	A=30	A=20	A=10	30 percent	40 percent	A=30	A=20	A=10
	Australia	107	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	Brunei	113	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	Canada	112	1.2	1.0	8.0	0.7	6.0	8.0	0.7	20	29	7	12	24
	European Union	106	11.8	11.8	8.3	7.1	7.9	6.9	4.9	30	40	33	42	28
	Hong Kong (SAR China)	113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	Iceland	108	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	Japan	85	4.8	4.8	3.4	2.9	4.0	3.7	3.0	59	39	17	23	36
High	Korea, Rep. of	59	14.7	14.3	10.2	8.7	9.4	8.0	5.6	59	39	35	44	61
)	Kuwait	106	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	New Zealand	113	1.5	5'0	0.5	0.5	0.5	0.5	0.5	0	3	0	0	1
	Norway	113	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	Qatar	113	15.0	3.3	3.3	3.3	3.3	3.3	3.3	0	0	0	0	0
	Singapore	113	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	Switzerland	68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0
	United States	106	1.0	1.0	0.7	9.0	6.0	8.0	0.7	59	39	14	19	32
	Argentina	109	35.0	11.7	11.7	11.7	11.5	11.1	7.5	0	0	2	9	36
1	Chile	113	25.0	0.9	0.9	0.9	0.9	0.9	0.9	0	0	0	0	0
1	Costa Rica	113	46.1	9.1	9.1	9.1	9.1	8.9	6.4	0	0	0	ĸ	30
1	Croatia	109	6.8	8.9	4.7	4.1	5.3	4.8	3.8	30	40	22	29	44
1	Grenada	106	50.5	28.0	25.5	23.1	16.8	13.0	7.7	6	18	40	54	72
	Malaysia	49	7.7	5.1	4.5	4.1	4.0	3.4	2.3	11	19	22	33	55
Upper	Mexico	113	34.9	27.8	23.4	20.4	15.9	12.6	7.7	16	27	43	55	72
	Oman	100	19.9	13.7	12.8	11.1	11.1	9.4	6.5	9	19	19	32	53
	St. Lucia	84	113.0	26.1	26.1	26.1	18.5	14.3	8.0	0	0	29	45	69
	St. Vincent and the Grenadines	77	121.5	32.6	32.6	32.6	22.4	17.0	9.1	0	0	31	48	72
	Trinidad and Tobago	113	50.4	28.6	26.1	23.6	17.0	13.0	7.7	6	18	41	55	73
	Uruguay	113	35.0	11.5	11.5	11.5	11.3	10.9	7.4	0	0	2	9	36
	Venezuela (Bol. Rep. of)	106	34.5	19.0	18.8	18.8	15.4	12.3	7.7	-	-	19	35	09

			Tariff level before	before cuts	MFN applie	MFN applied tariff average for seafood after tariff reduction	ge for seafo	od after tarif	f reduction	Percenta	Percentage reduction in MFN applied tariff average for seafood	in MFN appl seafood	ied tariff av	erage for
Income level	Country	Number of obser- vations	Bound	MFN applied	Proportional cut	onal cut	<b>S</b>	Swiss formula	_	Proporti	Proportional cut		Swiss formula	rs r
					30 percent	40 percent	A=30	A=20	A=10	30 percent	40 percent	A=30	A=20	A=10
	Armenia	106	15.0	9.4	9.4	8.5	9.4	8.1	5.7	0	10	0	14	40
	Bolivia	113	40.0	10.0	10.0	10.0	10.0	10.0	8.0	0	0	0	0	20
	Brazil	113	33.6	10.1	10.1	10.0	10.1	9.6	7.3	0	0	0	2	28
	Bulgaria	113	30.4	11.4	11.1	10.5	10.1	9.5	7.0	c	∞	12	17	38
	China	93	11.2	11.2	7.9	6.7	8.1	7.1	5.2	30	40	28	37	54
	Colombia	113	37.5	19.1	19.1	19.1	15.6	12.5	7.8	0	0	18	35	29
	Djibouti	106	40.0	20.2	20.0	19.9	17.0	13.3	8.0	-	-	16	34	09
	Dominican Republic	106	39.9	16.3	16.3	16.3	14.2	11.5	7.3	0	0	13	29	55
	Ecuador	113	28.9	19.0	18.8	17.0	14.3	11.6	7.4	-	1	24	39	61
	Egypt	104	28.0	18.4	18.0	16.3	11.0	9.1	6.4	3	12	40	51	65
Lower	El Salvador	113	45.3	9.1	9.1	9.1	9.1	8.9	6.4	0	0	0	2	30
middle	Guatemala	103	40.4	9.0	9.0	0.6	9.0	8.6	6.3	0	0	0	4	30
	Guyana	106	50.5	29.4	27.0	24.5	17.7	13.6	8.0	8	17	40	54	73
	Honduras	113	34.7	9.1	9.1	9.1	9.1	8.4	6.1	0	0	1	8	33
	Indonesia	113	40.0	4.9	4.9	4.9	4.9	4.9	4.8	0	0	0	0	-
	Jamaica	106	50.5	27.4	25.1	22.7	16.5	12.7	7.5	8	17	40	53	72
	Jordan	89	19.8	19.3	13.5	11.6	11.5	9.6	6.4	30	40	40	20	29
	Paraguay	113	34.8	11.5	11.5	11.5	11.4	10.9	7.5	0	0	-	2	35
	Peru	113	30.0	12.0	12.0	12.0	12.0	12.0	7.5	0	0	0	0	37
	Romania	113	27.9	21.0	18.1	16.3	14.0	11.3	7.2	14	23	33	46	99
	Sri Lanka	110	50.0	12.7	12.7	12.7	12.2	11.8	8.1	0	0	4	7	36
	Thailand	66	8.8	8.2	5.8	5.0	5.7	5.1	3.9	30	39	30	38	52

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			Tariff level before	before cuts	MFN applie	MFN applied tariff average for seafood after tariff reduction	ge for seafc	od after tarii	ff reduction	Percenta	Percentage reduction in MFN applied tariff average for seafood	in MFN appl seafood	lied tariff ave	rage for
Income level	Country	Number of obser- vations	Bound	MFN applied	Proportional cut	onal cut		Swiss formula		Proportional cut	onal cut	<b>5</b> 1	Swiss formula	_
					30 percent	40 percent	A=30	A=20	A=10	30 percent	40 percent	A=30	A=20	A=10
	Angola	106	0.09	31.6	31.6	31.6	19.4	14.6	8.5	0	0	39	54	73
	Congo, Dem. Rep.	113	93.0	17.0	16.8	16.7	16.6	14.4	8.9	-	2	2	15	48
	Guinea-Bissau	113	49.9	14.4	14.4	14.4	13.9	11.9	8.3	0	0	4	18	43
	Kenya	53	62.7	14.8	14.8	14.8	14.8	14.8	8.5	0	0	0	0	42
	Kyrgyz Republic	113	10.2	10.0	7.1	6.1	7.5	6.7	5.0	30	39	25	33	20
	Lesotho	59	61.3	17.2	17.2	17.2	13.8	10.6	6.1	0	0	19	38	64
	Malawi	95	40.9	15.0	15.0	15.0	15.0	13.4	8.0	0	0	0	1	47
	Mongolia	113	20.0	5.0	5.0	5.0	5.0	5.0	5.0	0	0	0	0	0
LOW	Mozambique	113	100.0	24.3	24.3	24.3	22.5	16.4	9.0	0	0	80	33	63
	Nicaragua	113	40.0	9.1	9.1	9.1	9.1	8.7	6.3	0	0	0	2	31
	Niger	97	50.0	13.5	13.5	13.5	13.1	11.5	8.3	0	0	м	15	39
	Papua New Guinea	113	53.9	27.7	27.7	27.6	18.3	13.8	8.0	0	0	34	20	71
	Rwanda	93	99.3	13.0	13.0	13.0	12.2	9.7	9.9	0	0	9	25	49
	Senegal	113	30.0	14.4	14.4	13.6	12.2	10.9	7.5	0	9	15	25	48
	Sierra Leone	113	49.9	16.7	16.7	16.7	15.8	12.8	8.3	0	0	2	23	09
	Zimbabwe	40	3.8	1.0	1.0	1.0	9.0	0.4	0.2	0	0	38	99	<i>LL</i>