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"Protection and export incentives in the Dominican Republic"

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Protection and Export Incentives in the Dominican Republic

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I. <u>Introduction</u>

- 1. The Dominican Republic constitutes an interesting case for commercial policy evaluation because an escalating import tariff rate structure and non-tariff import barriers aimed at protecting import-substitution activities coexist with successful export processing zones and tourism. Exports from these zones account for about 80% of total exports of goods and their annual growth rate has been about 26% in the last fifteen years.
- 2. As is well known, free trade status to exportable activities tend to reduce the antiexport bias of commercial policies as tariffs are not applied on imported inputs. Commercial policies could still have a negative impact on these activities as they tend to appreciate the so-called real exchange rate and thus to reduce the competitiveness of the country in international markets. The main question is thus the extent to which current commercial policies constitute an implicit tax on exportable activities in presence of export incentives.
- 3. This paper has the objective of quantifying the impact of commercial policies on resources allocation, factor returns, relative prices, and welfare in the Dominican Republic. A factor-specific general equilibrium model is used to assess the impact of current trade policies on the economy *vis-à-vis* a free trade policy. In addition, a Government proposal of tariff reductions submitted to Congress for approval, and an alternative policy of a 10% uniform import duty are also evaluated. The model is presented in Section II. Section III contains a summary of commercial policies. The evaluation of commercial policies is presented in Section IV and concluding remarks are in Section V.

II. A General Equilibrium Model

- 4. The model presented in this section is very similar in structure to those of R. Jones (1963), R. Batra (1973), R. Komiya (1967), and E. Bond (1995). In Batra's and Komiya's models, equilibrium prices of non-traded goods are determined only by supply conditions with demand playing no role in price determination. In this model, those prices are determined both by supply and demand for non-traded goods as a result of assuming sector-specific primary factors.
- 5. The model consists of three final goods (exportable, importable, and non-traded goods), four primary inputs (labor and three sector-specific factors), and three intermediate inputs (exportable, importable and non-traded inputs). Labor is mobile across activities while capital is a sector-specific factor although it is mobile among firms

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within each sector¹. Wages and profits are determined by the equality of demand with fixed supplies of labor and capital. Production technology is assumed to have constant returns to scale and elasticity of substitution between primary factors and inputs equal to zero. On the other hand, elasticity of substitution between labor and capital is assumed equal to one. Consumers' demand for final goods is assumed to be generated by a utility function with unitary elasticity of substitution.

6. The corresponding cost functions are thus:

(1)
$$C_{j} = \left[\theta_{0j} \cdot \left(w^{\beta_{j}} r_{j}^{\left(1-\beta_{j}\right)}\right) + \sum_{i=1}^{n} \theta_{ij} \cdot p_{i}\right] Y_{j} \qquad j = M, X, H$$

where w and r_j are wages and return to capital in activity j, p_i 's are the prices of inputs, Y_j is activity j's output, and M, X, and H refer to importable, exportable and non-traded activities.

7. Using Shepherd's Lemma, demand for primary factors and for inputs can be derived from (1):

(2)
$$L_j^d = \theta_{0j} \cdot \beta_j \cdot \left(\frac{r_j}{w}\right)^{(1-\beta_j)} Y_j$$

(3)
$$K_j^d = \theta_{0j} \cdot \left(1 - \beta_j\right) \left(\frac{w}{r_j}\right)^{\beta_j} \cdot Y_{j \cup AERI}$$

$$(4) D_{ij} = \theta_i Y_j$$

As what is going to be evaluated is policy *changes*, it would be convenient expressing equations (2) and (3) in terms of a baseline scenario to assess changes in demands for primary factors:

(2')
$$(1+l_j) = \frac{L_j^d}{\overline{L_j^d}} = \left(\frac{r_j}{\overline{r_j}}\right)^{(1-\beta_j)} \left(\frac{\overline{w}}{\overline{w}}\right)^{(1-\beta_j)} \cdot \frac{Y_j}{\overline{Y_j}}$$

(3')
$$(1+k_j) = \frac{K_j^d}{K_j^d} = \left(\frac{w}{\overline{w}}\right)^{\beta_j} \left(\frac{\overline{r_j}}{r_j}\right)^{b_j} \cdot \frac{Y_j}{\overline{Y_j}}$$

(4')
$$\left(1 + d_{ij}\right) = \frac{D_{ij}}{\overline{D}_{yj}} = \left(\frac{Y_j}{\overline{Y}_j}\right) = 1 + y_j$$

where a variable (\bar{x}) means the value of that variable in the baseline scenario.

The assessment of the impact of changes in commercial policies on the economy is thus limited to short run effects as no capital accumulation and technological change are allowed in the model.

8. Production responses to changes in relative prices are assumed to take place along the production possibility frontier so that all resources are fully employed. This full employment condition requires that demand for labor and capital be equal to their total endowments:

(5)
$$(1+l_M)\left(\frac{\overline{L_M^d}}{\overline{L}}\right) + (1+l_x)\left(\frac{\overline{L_X^d}}{\overline{L}}\right) + (1+l_H)\left(\frac{\overline{L_H^d}}{\overline{L}}\right) = 1, \text{ and }$$

$$(6) \qquad (1+k_j)=1$$

as labor is mobile across activities and capital is a specific primary factor.

9. A second general equilibrium condition is that of zero-profits. A relationship among prices of final products and prices of primary factors and purchased inputs (vis-à-vis the baseline scenario) can then be derived from the cost functions:

(7)
$$\frac{c_j}{\overline{c_j}} = \theta_{0j} \cdot \left(\left(\frac{w_j}{\overline{w_j}} \right)^{\beta_j} \left(\frac{w_j}{\overline{w_j}} \right)^{(1-\beta_j)} \right) + \sum_{i=1}^n \theta_{ij} \cdot \left(\frac{p_i}{\overline{p_i}} \right) = \left(\frac{p_j}{\overline{p_j}} \right)$$

10. Domestically produced goods are assumed to be perfect substitutes of their internationally traded counterparts so that their domestic prices are determined by their international prices plus import tariff or minus export tax rates. Border prices are going to be normalized to be equal to unity. Thus, domestic prices can be expressed as a function of the baseline and of the new import (or export) taxes. In the case of import-competing activities, their prices will be given by:

(8.1)
$$\frac{\overline{p}_{j}}{\overline{p}_{j}} = \frac{\left(1 + t_{j}\right)}{\left(1 + \overline{t}_{j}\right)} \quad \text{and} \quad \boxed{}$$

(8.2)
$$\frac{p_i}{\overline{p_i}} = \frac{\left(1 + t_i\right)}{\left(1 + \overline{t_i}\right)}$$

11. Prices of non-traded activities are determined domestically by the market clearing condition. Demand for non-traded goods as final consumer goods (D_H^d) is derived from a Cobb-Douglas utility function (U) while their demand for intermediate consumption is derived from the cost function (5):

(9)
$$U = B(D_x^d)^{\alpha 0} (D_F^d)^{\alpha 1} (H_F^d)^{\alpha 2}$$

It can be easily shown that the associated expenditure function (E) is as follows:

(10)
$$E = P(p_x, p_m, p_h)U = Bp_x^{\alpha 0} p_m^{\alpha 1} p_h^{\alpha 2} U$$

where P is a price level transforming units of the numeraire into utility units.

Applying the Shepherd's Lemma, the demand for non-traded activities as final consumer goods can be obtained:

(11)
$$\frac{dE}{dp_h} = D_H^d = B\alpha_2 p_h^{(\alpha^2-1)} p_x^{\alpha 0} p_m^{\alpha 1} U, \text{ or as a function of the baseline}$$

scenario,

(11')
$$1 + d_h = \frac{D_H^d}{D_H^d} = \left(\frac{p_h}{p_h}\right)^{(\alpha_2 - 1)} \left(\frac{p_x}{p_x}\right)^{\alpha_0} \left(\frac{p_m}{p_m}\right)^{\alpha_1} \frac{U}{\overline{U}}$$

Likewise, the demand for non-traded goods as intermediate inputs by the different productive activities can be obtained from the cost functions (1):

(12)
$$1 + d_{hj} = \frac{Y_j}{\overline{Y_j}} = 1 + y_j$$

Prices of non-traded activities are then determined by the market clearing condition

(13)
$$\frac{\underline{Y}_h}{\overline{Y}_h} = \left(\frac{\overline{D}_H^d}{D_H}\right) (1 + d_h) + \sum \left(\frac{\overline{D}_{Hj}^d}{D_H}\right) (1 + d_{hj})$$

12. Equation (13) contains changes in welfare (that is, changes in U) affecting the final demand for non-traded goods. These changes in welfare can be calculated using the national accounts identity:

(14)
$$E + S = Y + \sum_{j} t_{j} \left(D_{j}^{d} - S_{j} \right) + \sum_{i} t_{i} \left(D_{i}^{d} - S_{i} \right)$$

where Y is national income or revenue function

S is savings

 S_F , S_I are quantities domestically supplied of final and intermediate goods

13. The revenue function is a function of prices of final and intermediate goods:

$$(15) Y = Y(p_j, p_i)$$

Using Shepherd's Lemma,

(16)
$$Y_{p_j} = S_j$$
 supply of commodity j

(17)
$$Y_{p_i} = S_i - D_i = \text{excess supply of intermediate good } i$$

Change in utility is obtained by totally differentiating the utility function and using (16) and (17).

$$(18) \\ \left(1 + \left(\frac{\Delta U}{U}\right)\right) = \frac{\left[1 + \left[\left(\frac{\overline{E^{ic}}}{\overline{E}}\right)\left(\sum_{i} t_{i} \cdot (1 + d_{i})\right) + \left(\frac{\overline{E^{cg}}}{\overline{E}}\right) \cdot \left(\sum_{j} t_{j} \cdot (1 + d_{j})\right) - \left(\frac{\overline{Y^{m}}}{\overline{E}}\right) \cdot \left(\sum_{j} t_{j} \cdot (1 + y_{j})\right) - \sum_{j} \left(\frac{\overline{E^{cgi}}}{\overline{E}}\right) \cdot \Delta t_{j}\right]}{\left((1 + P)/\left(1 + \overline{P}\right)\right)}$$

where
$$\left(\frac{\overline{E^{ic}}}{\overline{E}}\right)$$
, $\left(\frac{\overline{E^{cg}}}{\overline{E}}\right)$, $\left(\frac{\overline{Y^m}}{\overline{E}}\right)$ are the shares of expenditure in intermediate and final

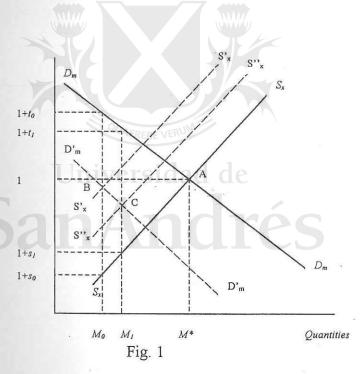
consumption, and of output of importable goods in total expenditure.

The numerator of (18) contains the welfare gains of increasing imports if domestic prices of imported goods exceed their international prices (t_i and $t_j > 0$), the gains of reducing output of import-competing activities and the cost for consumers of any tariff revenue loss; the denominator is the impact of changes in tariffs on the marginal utility of income (or expenditure).

- 14. The general equilibrium model thus comprises 21+n equations (2')-(8.2), (11')-(13), and (18) and the same number of endogenous variables, namely, y_j , p_j , p_i , U, d_{ic} , d_{cg} , p, l_j , k_j , w, and r_j . A unique solution of the model thus exists as a function of commercial policy, technological parameters, and sectoral shares in the use of labor and in expenditure.
- The short-run impact of protection to import-competing activities on wages is ambiguous. Nominal wages would tend to increase because demand for labor by import-competing activities increases as their domestic prices rises. This impact on wages could be offset by declines in output in the non-traded goods sector. As a result of substitution and wage cost effects, supply of non-traded goods would tend to decline and their consumption to increase, their prices would increase but the level of production may decline or increase depending upon the magnitudes of changes in supply and demand. Thus, the net impact of commercial policies on nominal wages would be a function of the size of the sectors and of their labor intensities. The impact of protection on real wages would depend on the impact of protection on the price index used to deflate nominal wages, that is, on the structure of consumer's expenditure.
- 16. Rental on capital in import-competing activities increases as a result of protection as demand for capital by these activities increases and of capital specificity. On the other hand, rental on capital in exportable activities would decline because the marginal productivity of capital would decline as a result of the increase in wages. Finally, the impact of protection on the rate of return on capital in non-traded activities is ambiguous as the impact of protection on the level of output is also ambiguous.
- 17. The output responses of import-competing and exportable activities are similar to those of general equilibrium models with perfect mobility of primary factors of production: production of importable goods increases and that of exportable goods declines. As indicated earlier, the response of production of non-traded goods is

ambiguous as demand for these goods increases and their supply declines as a result of substitution effects on consumption and production.

18. The model can be used to compute changes in value-added prices of importable and exportable goods (relative to that of non-traded goods) in response to changes in commercial policies and, hence, to obtain an estimate of the anti-export bias of commercial policies. As can be seen in fig. 1, the differential between relative prices of import-substitution and exportable activities measures the magnitude of distortions affecting the volume of trade. Let $D_m D_m$ be the excess demand for importable goods and $S_x S_x$ the excess supply of exportable goods. As before, units of goods are defined such that their internal prices are unity in equilibrium under free trade. Undistorted (free trade) equilibrium occurs at point A with a volume of trade equal to M^* where it has been assumed for simplicity that trade is balanced. Demand for importables and supply of exportables would shift when an import tariff is imposed to $D_m' D_m'$ and to $S_x' S_x'$, respectively as a result of substitution effects on production and consumption. In the new (distorted) equilibrium B, the relative price of importable goods would increase to $(1+t_0)$,



the relative price of exportable goods would decline to $(1+s_0)$, and the volume of trade would decline to M_0 . As can be seen in figure 1, the same volume of trade M_0 could be achieved with an implicit tax equal to $(t_0 - s_0)$ part of which represents a tax on exportable activities. The magnitude of the burden of this tax on exportable activities (s_0) is thus a measure of the so-called anti-export bias of commercial policies. The mechanism through which an import tariff is converted into an implicit export tax is the increase in the price of the non-traded good mentioned earlier (see paragraph 15). This increase in the price of non-traded goods tends also to erode in part the protection that was intended to be granted to import-competing activities.

19. The anti-export bias of commercial policies can be reduced by granting a free-trade status to producers of exportables on their imports of inputs. This would increase the supply of exportable goods to $S_x^{"}S_x^{"}$ and the volume of trade would expand to M_I . As a result, the relative price of exportable activities would increase from $(1+s_0)$ to $(1+s_1)$ and the implicit tax on trade would be reduced to (t_1-s_1) . There would still be an implicit tax on these activities (s_1) as a result of the overall impact of protection on prices of non-traded goods that cannot be eliminated by export incentives.

III. Current Commercial Policies

- 20. The Dominican Republic has made substantial progress towards reducing barriers to trade. In 1990, imports tariffs were reduced from a range of 0-200% to nine rates ranging from 0 to 35%. Tariff exemptions granted to special sectors under special agreements with the State have been eliminated. Import prohibitions have also been eliminated with the exception of several products competing with local production². At present, there are non-tariff barriers on imports of rice, sugar, onions, garlic, milk, red beans, poultry meat, and tomato paste. These commodities represent around 40% of 1995 agricultural output and 12% of manufacturing production.
- 21. The granting of these licenses to importers does not follow either clear procedures or criteria and the government authorities have wide discretional powers. In general, imports are authorized or prohibited depending upon the conditions of the market and they are subject to statutory tariff rates. Imports of poultry and tomatoes are exclusively granted to domestic producers. Import licenses for garlic, onions and potatoes are granted to registered importers only when there are domestic supply shortages.
- 22. The Government has reached agreement with the World Trade Organization (WTO) on increasing until the year 2005, on year-to-year basis, the quantities that can be imported under the quota system³. According to this agreement, the volumes of onions, red beans, sugar, garlic, and milk to be imported will be increased by 37% by the year 2005 compared to 1997 levels; the quota volumes for corn, poultry and rice will be increased by about 40, 53, and 23%, respectively. This will certainly tend to reduce the levels of protection granted to these activities. This reduction in protection rates would be reinforced if a government's proposal for further reduction in import tariffs is implemented (see paragraph 23 below); this overall reduction in tariff rates (and in prices of import-competing activities) would tend to reduce the demand for goods subject to the quota system as a result of cross-substitution effects.
- The tariff equivalents of these barriers have been quantified for the commodities for which data is available by comparing producers' prices with border prices (see Table 1).

No agreement has yet been reached with the WTO on binding tariff rates for imports outside the quota system.

Import prohibitions that have been eliminated comprise those that were enacted by presidential decrees. The remaining prohibitions are contained in laws granting the issue of import licensing to different government bodies.

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Table 1: Tariff Equivalents of Non-Tariff Barriers

(in %)					
Commodity	Statutory Rate	Tariff Equivalent			
Corn	5.00	85.17			
Red Beans	25.00	69.55			
Onions	25.00	37.87			
Garlic	25.00	34,53			
Poultry	25.00	74.82			
Pasteurized Milk	20.00	48.36			
Milk in Powder	20.00	53.36			
Polished Rice	20.00	43.00			
Raw Sugar	15.00	42.11			
Refined Sugar	15.00	37.67			

- 24. Regarding domestic indirect taxation, there is discrimination against imports in value added and excise taxation. The current value added tax rate is 8% and commodities such as rice, tomato sauces, condiments, cheese, bread, wheat, processed cereals, sausages, fresh, chilled and frozen meats, detergents, toothpaste, matches, salt, and primary sector commodities are exempt from the tax if they are locally produced. Imports of beer and alcoholic beverages, and cigarettes are subject to a 30% excise tax rate but local production is subject only to a 10% tax rate. If exempt from value added and excise taxation, producers would find more profitable to increase their production vis-à-vis non-discriminatory domestic indirect taxation. This would result from the increase in producers' prices because consumers would have to pay the international price plus all taxes on imports (import and domestic indirect taxes) but producers would not get any reduction in their prices because of the exemption on domestic taxes.
- 25. A summary of output-weighted average nominal protection rates granted by current commercial policies to import-substitution activities is presented in Table 2⁴. Import-competing agriculture is protected at a nominal rate of around 40%⁵ and its value added represents around 30% of the sectoral GDP. In the import-substitution manufacturing sector, activities such as grain mills (mostly rice milling), sugar refining, food processing, beverages, tobacco manufacturing (mostly cigarettes), wearing apparel and footwear are all protected at nominal rates ranging from around 30 to 45%. Not surprisingly, the value added of these activities represents about 80% of total value added of import-competing manufacturing (about 16% of GDP that excludes public administration).

Table 2: Nominal Protection Rates

The 1995 production matrix was used to calculate the output-weighted nominal protection rates for the activities. Within each activity, locally produced commodities were identified and the corresponding import tariff rates allocated to each of them and weighted by imports as the matrix contains data only about production at two digit level of the local classification of products.

Other agricultural activities such as paddy and livestock, are classified in this report as non-traded goods as there are no reported imports of these commodities. In the case of livestock, imports of live animals are mostly breeding stocks. Sugar cane, coffee and cocoa are, on the other hand, exportable commodities.

(in %

Activity	Protection Rate
Agriculture*	39.56
Import-Substitution Manufacturing	33.02
Grain Mills	44.54
Food Processing	40.93
Beverages and Tobacco Manufacturing	45.16
Textiles and Wearing Apparel	32.00
Footwear and Leather Manufacturing	35.00
Petroleum Refineries	5.90
Chemicals	16.3
Rubber and Plastic Products	24.00
Non-Metal Products	18.83
Metal Products	20.00
Other Manufacturing	17.37
Intermediate Goods **	15.69
Consumer Goods	28.53

Note: (*) Excludes paddy, livestock, forestry and fishing that are included in the non-traded group of commodities.

(**) Includes imports of capital goods.

Source: 1997 customs data and 1995 production matrix.

- 26. The government has submitted legislation to Congress to further reduce tariffs and to eliminate discrimination against imports in the value added and excise taxation. In the proposed legislation, the maximum tariff rate would be reduced to 15% in a period of two years and the number of rates reduced to four (0-5-10-15%). The government's proposal includes a transitional tariff structure by which the maximum import tariff would be reduced to 20% and the number of tariff rates reduced to five (0, 3, 8, 14, 20%).
- 27. Nominal output-weighted protection rates as proposed by the government have been calculated for import-competing activities and they are presented in table 3. Data in column (a) contains the proposed tariff rates per economic activity maintaining current import licensing for the aforementioned commodities; column (b) assumes the elimination of these quantitative restrictions. In both cases, there would be a substantial reduction in nominal protection rates, particularly for food processing and grain mills.

Table 3: Proposed Tariff Reductions

(in %)

Activities	Protection Rates (a)	Protection Rates (b)	
Other Agriculture	22.63	15.00	
Grain Mills	32.61	15.00	
Food Processing	25.78	15.00	
Beverages and Tobacco Manufacturing	15.00	15.00	
Textiles and Wearing Apparel	13.11	13.11	
Footwear and Leather			

Manufacturing	14.91	14.91	
Petroleum Refineries	0.23	0.23	
Chemicals	5.48	5.48	
Rubber and Plastic Products	9.24	9.24 10.27 5.90	
Non-Metal Products	10.27		
Metal Products	5.90		
Other Manufacturing	6.23	6.23	
Intermediate Goods	3.36	3.36	
Consumer Goods	15.3	11.92	

Notes: (a) Existing QRs are maintained. (b) QRs are eliminated.

Commercial Policy Evaluation IV.

- The general equilibrium model is solved using the coefficients of the 1995 inputoutput matrix for the Dominican Republic. The matrix contains 37 sectors (excluding public administration) of which 13 are classified as import competing activities (other agriculture, grain mills, sugar refining, food processing, beverages and tobacco manufacturing, textiles, footwear, petroleum refineries, rubber and plastic products, chemicals, non-metal products, metal products and other manufacturing), 8 as exportable activities (exportable agriculture, mining, food processing, textiles, tobacco manufacturing, footwear, and other activities in export processing zones, and hotels and restaurants), and 16 as non-traded activities (paddy, livestock and services excluding public administration and hotels). The non-traded service sector is aggregated into one activity and sugar refining and food processing are also merged together so that the inputoutput matrix used in the calculations contains 23 activities.
- As mentioned earlier, nominal protection rates include tariff rates, value added and excise differentials, and the calculated tariff equivalents of quantitative restrictions. The source of tariff rates is 1997 customs data containing CIF value of imports and tariff revenue so that actual tariff rates could be calculated. In order to calculate tariff rates on imports of inputs and capital goods, imports were classified according to the Broad Economic Categories (BEC)⁶ of the United Nations by mapping the codes of the Customs Harmonized System (HS) into those of BEC; another mapping was used to link the local codes of national accounts with those of HS7. As a result, customs data could be matched with input-output data and tariff rates allocated to the different categories of inputs and capital goods used in production by the economic activities.
- The current commercial policies summarized in Table 1 are used as the baseline scenario and compared with alternative commercial policies, namely, free trade, the

This mapping along with customs data were kindly provided by the Department of National

Accounts of the Central Bank of the Dominican Republic.

These broad categories are consumer, intermediate and capital goods, and passenger motor cars. The latter are included in the consumer good category. BEC codes also classify imports by degree of processing (primary and manufactured products) for consumer and intermediate goods.

Government's proposal of tariff reductions, the proposal *cum* elimination of quantitative restrictions, and a 10% uniform import duty⁸. Units of goods, inputs, and primary factors are defined so that their prices are equal to unity in the baseline scenario.

- The impact of the alternative scenarios on the economy is presented in Tables 4-10. As indicated in Section II, one consequence of protection is that exportable activities are subject to an implicit tax that can be reduced but not eliminated by granting free trade status to their producers. It is estimated that, under the <u>free trade scenario</u>, the relative value added prices of exportable activities would increase by 27% (see Table 4) and this would reflect the removal of the implicit tax. According to the calculations, exportable activities would currently pay around 55% of the total taxation of foreign trade (48%)⁹.
- 32. Nominal value added prices of non-traded agriculture (paddy and livestock) would substantially fall (46% for paddy, and 50% for livestock) as a result of trade liberalization¹⁰. As most of the local demand for these commodities is for intermediate consumption by import competing activities, the reduction in (effective) protection granted to these activities is the main cause behind this decline.
- 33. As indicated in Section II, the impact of changes in commercial policies on real wages depends upon consumers' pattern of expenditure. Based on input-output data, it is calculated that real wages would increase by about 5% in spite of a reduction in nominal wages by around 13% as the result of a decline in the consumer price level of around 17%. On the other hand, return to capital in import-substitution activities would decline with the elimination of protection, and increase in export-oriented activities (see Table 5). This clearly indicates that protection redistributes income against labor, at least in the short run. As a result of free trade, the increase in consumers' welfare is calculated at around 8% over that of current commercial policies.

Table 4: Free Trade Scenario – Impact on Relative Prices, Wages, Prices and Welfare

(in %)

Impact of Reforms on:	% Change		
Relative Value Added Prices:			
Import-Substitution Activities	-21.67		
Exportable Activities:	26,68		
- Commodities	21.66		
- Tourism	33.47		
Implicit Tax on Trade	-48.35		
Value Added Prices of Non-			
Traded Goods:	-13.86		
Paddy	-45.90		
Livestock	-50.17		

The 10% uniform import duty is included in the simulations as a n^{th} best alternative to free trade under fiscal revenue constraints where the order of n is determined by maximizing consumers' welfare through the simulations.

L. Sjaastad and K. Clements (1984) report similar values (.60) of the incidence of trade taxation on exportable activities for an average of several countries although the methodology is different than the one used in this study.

In the case of livestock, forestry and fishing, the sectoral output is dominated by livestock, of which production of poultry is one of the most important components.

-11.08
-12.80
4.90
-16.87
7.80

Notes: Value added prices are averages of those of the activities weighted by the sectoral shares in total value added.

Real wages are nominal wages deflated by a consumer price index with weights given by the input-output matrix.

- 34. Under this scenario, the increase in output of export processing zones (see Table 5) would range between 16 (food processing) and 50% (footwear and leather manufacturing). Agriculture and mining outputs would increase by around 7 and 13%, respectively, reflecting the fact that these commodities are intensive in the use of natural resources¹¹. Most of the outputs of import-competing activities would decline as a result of free trade; this decline would range between 6 (import competing agriculture) and 53% (footwear for the domestic market)¹².
- 35. The size of the response of outputs of exportable activities such as footwear and tobacco processing is not surprising as these activities are labor-intensive (labor-capital ratios are 2.53 in tobacco processing and 2.57 in leather manufacturing compared to an average of about 1.5 for the whole export processing sector) and their production costs would be thus reduced *vis-à-vis* other exportable activities. Given the assumption of full employment of the labor force, these activities would need to expand *vis-à-vis* others in order to absorb the labor released by import-competing activities.

Table 5: Free Trade Scenario – Impact on Output, Employment and Capital
Rentals

(in %

Activities	Changes in Output	Changes in Employment	Changes in Return to Capita	
Rice	-26.40	-54.40	-60.20	
Exportable Agriculture	6.80	24.40	8.50	
Other Agriculture	6.10	-26.50	-35.90	
Livestock, Forestry and Fishing	-9.10	-48.00	-54.70	
Mining	13.10	55.50	35.60	
Grain Mills	-28.90	-48.10	-54.70	
Food Processing	-17.10	-41.00	-48.60	
Beverages and Tobacco Manufacturing	-9.50	-42.50	-49.90	
Textiles and Wearing Apparel	-26.80	-49.50	-56.00	

It is assumed that technology in tourism (hotels and restaurants) is such that the elasticity of substitution between labor and capital is zero; as capital is specific to the activity, the activity's output response is zero.

If unitary elasticity of substitution between labor and capital in tourism is assumed, then tourism output would expand by about 14%, and the increase in tobacco manufacturing and footwear in export processing zones would be around 34 and 39%, respectively.

Footwear and Leather Manufacturing	-52.70	-67.60	-71.70
Petroleum Refineries	3.80	20.90	5.40
Chemicals	-3.80	-10.90	-22.30
Rubber and Plastic Products	-7.10	-20.40	-30.60
Non-Metal Products	-7.50	-12.80	-24.00
Metal Products	-16.50	-36.00	-44.30
Other Manufacturing	-7.10	-14.20	-25.20
Food Processing (EPZs)	15.60	34.00	16.80
Tobacco Manufacturing (EPZs)	43.90	66.10	44.80
Wearing Apparel (EPZs)	26.70	48.10	29.10
Footwear and Leather Manufacturing (EPZs)	49.50	74.90	52.40
Other Manufacturing (EPZs)	12.40	31.10	14.30
Hotels and Restaurants	0.00	0.00	31.60
Other Services	1.00	3.00	-10.20

- 36. If sector-specific capital were internationally mobile and rates of return were equalized for the same activities across countries in the baseline scenario, the increase in capital rentals in exportable activities would certainly attract foreign investment until capital rental differentials are eliminated. This would reinforce the short-run effect of trade liberalization on output of exportable activities. As a result, their demand for labor would increase further as capital and labor are complements in production. By the same token, the decline in output of import competing activities would be enhanced as a result of the reduction of the stock of sector-specific capital. The impact of changes in the stock of capital on nominal wages is thus ambiguous as it would depend upon the magnitudes of the changes in sectoral demands for labor.
- 37. The simulations of the impact of the Government's trade liberalization proposal on the economy are presented in Table 6. Relative value added prices for exportable activities would increase by about 12%. The welfare gains to consumers under this scenario (+1.9%) would be well below those of the free trade scenario. The difference that the government's proposal could make in the economy is given by eliminating the existing non-tariff barriers. If these quantitative restrictions are eliminated, then the anti-export bias would be further reduced by 6 percentage points and consumers' welfare would increase by about 2 percentage points (from 1.9% to 4.2%). This could be achieved without any decline in real wages¹³.

Table 6: Impact of Trade Reforms on Relative Prices, Wages and Welfare

(in %)

Impact of Reforms on:	(a)	(b)	
Relative Value Added Prices:	*41		
Import Substitution Activities	-9.20	-12.31	
Exportable Activities	12.20	15.35	

Actually, real wages would increase if quantitative restrictions are eliminated.

- Commodities	8.77	11.92
- Hotels	16.82	19.99
Implicit Tax on Trade	-21.31	-27.66
Value Added Prices of Non-Traded		
Goods:	-5.44	-7.89
Paddy	-9.12	-30.35
Livestock	-14.96	-31.39
Services	-4.77	-7.89
Nominal Wages	-5.30	-7.40
Real Wages	1.80	2.60
Consumer Price Index	-7.00	-9.75
Consumers' Welfare	1.90	4.20

Notes: (a) Existing QRs are maintained.

(b) QRs are eliminated.

38. The response of supply of exportable goods would be stronger (see Table 7) if existing quantitative restrictions are eliminated along with the reduction in import tariffs of this scenario. In particular, outputs of footwear and leather manufacturing, and tobacco manufacturing would expand by 25 and 23 %, respectively, compared with outputs of the baseline scenario. This would be mostly the result of releases of labor by paddy (-37%), food processing (24%), and rice milling (32%) activities caused by reductions in their value added prices.

Table 7: Impact of Trade Reform Proposals on Output, Employment, and Capital Rentals

(in %

Activities	Changes in Output		Changes in Employment		Changes in Return to Capital	
	(a)	(b)	(a)	(b)	(a)	(b)
Rice	-2.60	-16.80	-6.60	-37.40	-11.50	-42.00
Exportable Agriculture	2.90	3.90	10.20	13.70	4.30	5.30
Other Agriculture	-2.20	-3.50	-10.10	-16.20	-14.90	-22.30
Livestock, Forestry and Fishing	-1.80	-5.00	-11.80	-29.70	-16.50	-34.80
Mining	6.90	8.20	27.20	32.90	20.40	23.10
Grain Mills	-2.80	-18.20	-5.30	-32.10	-10.30	-37.10
Food Processing	-3.30	-9.20	-8.90	-23.70	-13.80	-29.30
Beverages and Tobacco Manufacturing	-6.30	-5.80	-30.50	-28.40	-34.20	-33.70
Textiles and Wearing Apparel	-16.50	-14.70	-32.60	-29.40	-36.30	-34.60
Footwear and Leather Manufacturing	-32.60	-29.50	-44.80	-40.90	-47.70	-45.20
Petroleum Refineries	0.90	1.50	4.70	8.20	0.90	0.20
Chemicals	-3.10	-1.90	-8.80	-5.60	-13.70	-12.50

Rubber and Plastic Products	-4.80	-3.80	-14.20	-11.30	-18.70	-17.80
Non-Metal Products	-1.60	1.60	-2.80	2.80	-8.00	-4.80
Metal Products	-13.10	-11.10	-29.30	-25.20	-33.10	-30.70
Other Manufacturing	-3.90	-1.60	-8.00	-3.40	-13.90	-10.50
Food Processing (EPZs)	6.10	8.50	12.60	17.70	6.60	9.10
Tobacco Manufacturing (EPZs)	15.80	22.50	22.70	32.80	16.20	23.00
Wearing Apparel (EPZs)	10.20	14.20	17.50	24.60	11.30	15.50
Footwear and Leather Manufacturing (EPZs)	17.90	25.30	25.80	36.80	19.20	26.80
Other Manufacturing (EPZs)	4.90	6.80	11.70	16.40	5.80	7.80
Hotels and Restaurants	0.00	0.00	0.00	0.00	19.10	20.50
Other Services	0.30	0.70	0.90	2.10	-4.50	-5.40

Notes: See Table 6.

39. If there are fiscal restrictions to trade liberalization policies requiring taxation of trade, the country would do much better in terms of consumers' welfare with a 10% uniform import tariff than under the government's proposals. Welfare of consumers would increase by about 5 percentage points over that of the baseline scenario. Under this alternative, relative value added prices of exportable activities would increase by about 17% and the remaining taxation of exports would be about 10 percentage points vis-à-vis the free trade scenario.

Table 8: 10% Uniform Import Duty – Impact on Relative Prices, Wages and Welfare

(in %)

Impact of Reforms on:	% Change
Relative Value Added Prices:	<u> </u>
Import-Substitution Activities	-15.68
Exportable Activities:	16.83
- Commodities	13.67
- Tourism	21.09
Implicit Tax on Trade	-32.51
Value Added Prices of Non-Traded	/ / / /
Goods:	-10.17
Paddy	-38.56
Livestock	-40.32
Services	-7.85
Nominal Wages	-9.50
Real Wages	1.36
Consumer Price Index	-10.71
Consumers' Welfare	5.10

40. The supply responses of the activities to a 10% uniform import duty are presented in Table 9. It should not be surprising that the supply response of exportable activities is higher than under the two previous scenarios as a result of the further reduction of the anti-export bias. In particular, outputs of footwear and leather manufacturing, and tobacco manufacturing would increase by around 34 and 30%, respectively. The increase in employment in these two sectors would range between 44 and 50%. Activities such as

paddy and livestock would release labor by around 47 and 40% of their current employment levels, respectively; import-competing footwear would reduce its demand for labor by about 60%.

Table 9: 10% Uniform Import Tariff – Impact on Output, Employment and Capital Rentals

(in %)

Activities	Changes in Output	Changes in Employment	Changes in Return to Capital
Rice	-22.10	-47.10	-52.10
Exportable Agriculture	4.40	15.40	4.50
Other Agriculture	-4.60	-20.70	-28.30
Livestock, Forestry and Fishing	-6.80	-38.50	-44.40
Mining	7.40	29.40	17.10
Grain Mills	-24.00	-41.00	-46.60
Food Processing	-12.60	-31.60	-38.10
Beverages and Tobacco Manufacturing	-7.80	-36.50	-42.60

Activities	Changes in Output	Changes in Employment	Changes in Return to Capital
Textiles and Wearing Apparel	-22.80	-43.30	-48.70
Footwear and Leather Manufacturing	-46.10	-60.50	-64.20
Petroleum Refineries .	5.80	33.30	20.60
Chemicals	0.20	0.50	-9.00
Rubber and Plastic Products	-4.40	-12.80	-21.10
Non-Metal Products	1.40	2.40	-7.30
Metal Products	-9.40	-21.60	-29.00
Other Manufacturing	-0.40	-0.90	-10.30
Food Processing (EPZs)	11.10	23.50	11.80
Tobacco Manufacturing (EPZs)	30.10	44.40	30.70
Wearing Apparel (EPZs)	18.50	32.50	20.00
Footwear and Leather Manufacturing (EPZs)	33,50	49.40	35.20
Other Manufacturing (EPZs)	8.70	21.50	10.00
Hotels and Restaurants	0.00	0.00	19.00
Other Services	0.90	2.70	-7.00

41. The responses of exports of mining, exportable agriculture, and export processing zones are presented in Table 10 using 1995 data as the base year. As the model used in the simulations is static in the sense that it does not explain any long run trend of the endogenous variables, the export response should be understood as a *once-and-for-all* reaction to changes in commercial policies over any trend value. The projections show that under free trade, exports of these commodities would expand by about 25% in the short run. If the government's trade reform proposal were implemented, then exports would expand by only about 9%. Again, the country could do better in terms of export performance under the 10% uniform duty scenario as exports would expand by about 17%.

Table 10: Projected Export Responses

(in %)

Scenario	Agriculture	Mining	EPZs	Total
Free Trade	46.79	11.65	25.74	25.44
Government's Proposal	2.46	4.10	9.74	9.06
Elimination of QRs	19.65	5.20	13.59	13.19
10% Uniform Import Duty	29.00	4.06	17.76	17.13

V. Concluding Remarks

42. It has long been recognized that tariffs and non-tariff barriers on imports reduce the volume of trade. As the balance of trade is largely unaffected by commercial

policies, what happens to imports will also happen to exports. Simple accounting shows that if commercial policies reduce imports, then, the need of foreign exchange to purchase them is also diminished; consequently, exports will also be reduced as they are the ultimate source of foreign exchange.

- 43. It should also be recognized that this study only gives a quantitative evaluation of short run export supply response to changes in commercial policies. A diversity of dynamic effects has not been incorporated in this commercial policy evaluation because of the practical ways of incorporating them into the analytical framework used in the report. Following a more dynamic approach would have meant incorporating more assumptions and guesses about key economic and technological parameters.
- 44. As Prof. Harberger (1998) wisely points out, openness tends to grease the wheel of economic growth by making modern technology more profitable for domestic firms and by opening up the possibility frontier for specialization. Firms that currently have incentives to produce a variety of goods for the limited domestic market would find more profitable to specialize in a few products and importing others according to the local demand; these production rationalization would lead to efficiency gains that, in turn, would have the potential to make these firms to become exporters. These unaccounted factors would certainly provide additional impetus to economic growth.
- With all its limitations, this study shows that although existing export incentives can compensate the impact of commercial policies on production costs of exportable commodities, the overall impact of protection policies on output of exportable activities can still be substantial. The main reason is that protection results in increases in prices of non-traded goods and in nominal wages. As a consequence, the value added prices of exportable goods (relative to those of import-competing and non-trade activities) decline and their output is reduced *vis-à-vis* those of a non-distorted environment such as free trade. Protection is not a free lunch for the economy because it is a *non-zero sum game* as the result of the costs imposed on consumers and of the resources misallocation costs. Exportable activities share a great deal of the burden that current protection policies impose on the economy.
- 46. The quantitative evaluation of current commercial policies indicates that there is an implicit tax on exportable activities of about 27% although the country has been able to successfully implement tax rebates for exports in processing zones. The current government's proposal would be a significant move in the right direction towards reducing the burden of this tax but it is a timid approach as measured by its welfare gains and export response compared to available alternatives. For instance, a 10% uniform import tariff along with the elimination of non-tariff barriers can do better in terms of welfare gains and export performance than the government's proposal. A simple explanation for this is that if there are fiscal revenue constraints that would require taxation of the country's volume of international trade, then an uniform import duty would further reduce distortions in relative prices for consumers and producers while preserving fiscal revenue.

References

- Batra, R., Studies on the Pure Theory of International Trade, ch. 9, MacMillan London, 1973.
- Bond, E., "Using Tariff Indices to Evaluate Preferential Trading Arrangements: An Application to Chile", The World Bank, 1995.
- Clements, K. and L. Sjaastad, <u>How Protection Taxes Exporters</u>, Trade Policy Research Centre, London, 1984.
- Harberger, A., "A Vision of the Growth Process", AER, Vol 88, Nº 1, March 1998.
- Jones, R. "The Structure of Simple General Equilibrium Models", <u>The Journal of Political Economy</u>, vol. LXXIII, December 1965, 6.
- Komiya, R., "Non-Traded Goods and the Pure Theory of International Trade", International Economic Review, VIII, June 1967.
- Neary, J. P., "Short-Run Capital Specificity and the Pure Theory of International Trade", <u>The Economic Journal</u>, vol. 88, Sept. 1978.



ANNEX A

A GE Model with Endogenous Capital Response: An Illustration

A1. In this Annex, the model of the main section is modified in order to simulate the impact of changes in the rates of return to sector-specific capital on the economy on capital accumulation in manufacturing, tourism and services activities¹⁴. This extension of the model specifies a simple relationship between the desired stock of capital and the real rate of return of the following type:

(a.1.)
$$K_j^d = b_j \cdot (1 + r_j)$$
 where $b_j > 0$, and r_j is the rate of return to capital in activity j .

A2. In terms of changes of desired capital stock $vis-\dot{a}-vis$ the baseline scenario, equation (a.1) can be expressed as:

(a.2)
$$\left(1+k_j^d\right) = \frac{\left(1+K_j^d\right)}{\left(1+\overline{K_j^d}\right)} = \frac{\left(1+r_j\right)}{\left(1+\overline{r_j}\right)}$$

A3. The results of incorporating equation (a.2) into the general equilibrium model of Section II are presented below for the free trade scenario. They show that relative value added prices of exportable activities would increase by about 20% and that the total taxation rate on trade is calculated at 41% compared to 22 and 48%, respectively, under given stocks of sector-specific capital. In particular, the increase in value added prices of commodities and tourism would be about 14 and 26%, respectively. Real wages, on the other hand, would increase by around 7% compared to the calculated short run response of around 5%.

Table A.1: Free Trade Scenario - Impact on Relative Prices, Wages and Welfare

(in %)	
Impact of Reforms on:	% Change
Relative Value Added Prices:	*****
Import-Substitution Activities	-21.82
Exportable Activities:	19.16
- Commodities	14.07
- Tourism	26.02
Implicit Tax or Trade	-40.98
Value Added Prices of Non-	
Traded Goods:	
Paddy	-55.12
Livestock	-77.56
Services	-4.55
Nominal Wages	-9.60
Real Wages	7.40
Consumer Price Index	-15.82
Consumers' Welfare	12.90

It is assumed that return to capital in mining and agriculture is mostly land rental and as such assumed given by the force of nature.

A4. Output effects of trade liberalization with endogenous capital are presented in Table A.2. According to the results, expansion of tobacco manufacturing and footwear in export processing zones would reach around 70%, and wearing apparel by about 40% as a result of additional investments. Tourism (hotels and restaurants) output would increase by about 30%. Exports of agricultural commodities and mining, of export processing zones, and tourism are projected to expand by 38%.

Table A.2: Free Trade Scenario – Impact on Output, Employment, and Capital Accumulation

(in %)

Activities	Changes in Output	Changes in Employment	Changes in the Stock of Capital
Rice	-36.20	-68.30	ů
Exportable Agriculture	5.00	17.90	. т .
Other Agriculture	-7.00	-29.90	2
Livestock, Forestry and Fishing	-21.10	-80.40	
Mining	9.40	38.30	r#
Grain Mills	-39.90	-47.20	-30.90
Food Processing	-44.00	-55.30	-36.50
Beverages and Tobacco Manufacturing	-56.40	-73.70	-51.30
Textiles and Wearing Apparel	-69.90	-80.00	-57.50
Footwear and Leather Manufacturing	-88.90	-92.70	-74.40
Petroleum Refineries	3.50	13.40	1.30
Chemicals Univ	-29.40	-37.50	-24.80
Rubber and Plastic Products	-38.20	-49.10	-32.20
Non-Metal Products	-39.10	-45.40	-29.80
Metal Products	-62.90	-74.50	-52.00
Other Manufacturing	-38.80	-46.60	-30.50
Food Processing (EPZs)	24.00	37.90	11.60
Tobacco Manufacturing (EPZs)	70.30	89.10	30.70
Wearing Apparel (EPZs)	41.40	58.00	19.50
Footwear and Leather Manufacturing (EPZs)	79.10	100.10	34.50
Other Manufacturing (EPZs)	19.20	33.10	9.70
Hotels and Restaurants	27.60	27.60	27.60
Other Services	0.80	6.40	-1.90

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Statistical Annex

Table B.1: Tariff Equivalents of Quantitative Restrictions
Table B.2: Nominal Protection Rates of Manufacturing Activities
Table B.3: Nominal Protection Rates of Agricultural Activities
Table B.4: Import Tariffs on Imports of Inputs and Capital Goods

Table B.1: Tariff Equivalent of Quantitative Restrictions

Commodity	Producer's Price	CIF Price	Tariff Equivalent
Corn	4282.87	2312.91	85.17
Green Beans	14.61	8.62	69.55
Garlic	31.00	23.04	34.53
Onions	11.42	8.28	37.87
Poultry	21.72	12.43	74.82
Milk in Powder ^a	94.84	61.84	53.36
Pasteurized Milk ^b	19.82	13.36	48,36
Sugar ^c	5489.01	3862.49	42.11
Sugar ^d	6918.03	5025.21	37.67
Rice	8924.88	6240.66	43.01

Notes:

- (a) Milk NIDO
- (b) Milk RICA (uht)
- (c) Sugar Crema
- (d) Sugar Refino

Sources:

Dominican Republic Customs data, US Customs data,

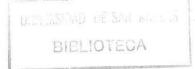
and National Accounts.

Table B.2: Nominal Protection of Manufacturing Activities

HS code	Product	NA Prod. codes	Activity Codes	Nom Prot*	tariffs 2000
2012000	Cortes de res	200100	P ₃ -	35.00	15.00
	cortes de cerdo	200100		35.00	15.00
	cortes de pollo (estimated)	200100		74.80	74.8
2090020		200100		35.00	5.0
	Total	200100	8	51.87	39.4
16010020	Salchichas	200200		45.80	15.0
The second of the second of the	Jamon de pavo	. 200200		45.80	15.0
16024100		200200		45.80	15.0
16024900		200200		45.80	15.0
	Embutidos (salamis)	200200		45.80	15.0
	Embutidos (jamones)	200200		45.80	15.0
	Embutido (salchichas)	200200		45.80	15.0
	Embutidos (prod. curados)	200200		45.80	15.0
	Total	200200	8	45.80	15.0
	Aceite de Sova	210100	8	30.00	15.0
15171000		210200	8	30.00	15.0
	Leche Pasteurizada (RICA U.T.H.)	220100	8	48.36	48.3
	Leche en Polvo (NIDO)	220200	8	53.00	
4022110	Lectile cit i cito (itibo)				
4062000	Queso picantino	229900		45.80	15.0
	Queso Danes	229900		45.80	
	Queso Holandes	229900		45.80	
	Leche Evaporada	229900 229900		30.00	1
The state of the s	Leche Condensada	229900	±,	30.00	1
4069020	Ouese	229900		45.80	
4069020		229900	-e	45.80	
4069030		229900		45.80	100 (31271)
4064000		229900		45.80	100
	Ice Cream	229900		35.00	
(88) (88) (80)	Median Santa Carlos	229900		20.00	1
4050020	Butter oil	229900	8	37.13	
	Total	223300	0	37.13	15.0
40000000	A	2301	6	43.00	43.0
10062000	Alfoz	2501	0	-0.00	20.0
10063000					20.0
10064000	Code 4-4-1	230200		*	20.0
41040000	Sub-total	230200		18.80	5.0
11010000	Wheat Flour	230200	0	10.00	3,0
11022000	Corn Flour	239900	7	18.80	5.0
	Semola de maiz	239900		15.00	100
11031300	Total	239900		17.14	1
19051000/5 4000	Pan	240100	8	45.80	15.0
TEMPOT				2	8
19052000	Galletas	249900		35.00	15.0
	Picaderas patatas	249900		35.00	The second secon
	Total	249900	1	35.00	

17011100	Azucar Refino	250100		37.67	37.6
17011100	Azucai Kenno	200100		57.57	07.0
17011100	Azucar Crema	250200	7	42.11	42.1
20021000	Conservas de Tomates	260100		45.80	15.0
20029000	Conservas de Fontaces	260100		45.80	15.0
20054000		260100		35.00	15.0
20054000		260100		35.00	15.0
	L	260100		35.00	15.
	Legumbres y Hortalizas preparad Jaleas, Mermeladas, Pures, etc.	260100		35.00	15.
	Salas: Pastas de tomates	260100		45.80	15.
		260100		35.00	
	Tomates enteros o en trozos				15.
	Los demas (molido semiliquido, pure y productos derivados del tomate).	260100		35.00	15.
	Pastas de tomate semi-procesada (materia prima a granel)	260100		45.80	15.
	Guandules en latas	260100		35.00	15.
20058000	Maíz Dulce	260100		45.80	15.
20054000	Arvejas o Guisantes; porotos, habichuelas, vainitas	260100		35.00	15.
20079930	Jaleas, mermeladas, pures y pastas de los demás frutos	260100	y =	35.00	15.
20091100	Jugo concentrado de naranja	260100		35.00	15.
	Jugo concentrado de toronja congelado	260100		35.00	15.
STANDARD CALLED A STANDARD	Jugo Concentrado de Manzana	260100		35.00	15.
	Jugo Concentrado de Piña	260100		35.00	15.
	Jugo Concentrado de Naranja	260100		35.00	15.
	Jugo Concentrado de Melocoton	260100		35.00	15.
	Jugo Concentrado de Uva	260100		35.00	15.
	Jugo Concentrado de Pera	260100		35.00	15.
	Ajo concentrado	260100		35.00	15.
0129090	Total	260100	8	38.28	15.
	Total	200100		30.20	10.
23099090	Alimentos para Animales (pollos, etc.)	260300	8	24.20	5.
17041000	goma de mascar	260400		35.00	15.
	Caramelos	260400		30.00	15.
18040000	Chocolate/manteca de cacao	260400		20.00	10.
18063100	Art. de Confir con cacao	260400		35.00	15.
	Total	260400	8	31.83	
19021900	Pastas Alimenticias	260500	8	40.40	15.
	Cafe molido	260600		40.40	15.
	Café Descascarado	260600		30.00	15.
9012120	Café molido	260600		30.00	15.
	Total	260600	8	33.47	
	Sazon Liquido	269900		45.80	15.
21039020				40.40	5.
	1	269900			200
21069030	Ketchup	269900 269900		30 00	15
21069030 22090000	Ketchup Vinagre	269900		30.00	15.
21069030 22090000 25010010	Ketchup			30.00 18.80 30.00	15. 0. 15.

	Total	269900	8	30.55	10.67
22094000	Dom	270100	9	30.00	15.00
22084000	Kon	=			
22030000	Cerveza	270200		53.64	15.00
LLOGGGGG	Total	270200	9	53.64	
22029000	Bebidas Carbonatadas	280100		30.00	15.00
	Agua en Pet 16 oz/ 1.5 Lt, 2 Lt	280100		30.00	15.00
	Refrescos enlatados	280100		30.00	15.00
	Agua mineral y agua gasificada	280100		30.00	15.00
	Las demas	280100		30.00	15.00
	Las demas	280100		30.00	15.00
22020000	Total	280100	9	30.00	15.00
24022020	Cigarrillos	290100	9	53.64	15.00
24022020	Cigarros (exportable - EPZs))	290100		30.000000000000000000000000000000000000	
	Total Cigarrillos	290100		53.64	
	* "				
	Hilados Textiles	300100	10	0.00	0.25
	Art. Confeccionados con Textiles	300200	10	30.68	10.05
	Prendas de Vestir	300300	10	34.88	14.95
					NEW TESTERON
64051000	Calzado	300500	\	35.00	15.00
64059000	AERE	RE VEN 300500		35.00	15.00
64061010		300500		35.00	10.00
	Total Univers	300500	11	35.00	14.91
48043900	Papel manila	320100		15.00	0.00
	Carton plegadizo estucado blanco por una	320100		5.00	0.00
	cara				
	Carton plegadizo blanco por las dos cara	320100		15.00	0.00
48113190	Papel y carton recubierto, impregnado o revestido de plastico (con exclusion de los adhesivos; Blanqueado, de gramaje superior a 150 gr/m2. Los demas.	320100		15.00	0.00
48101100	Papel y carton, estucado por una o las dos caras exclusivamente, con caolin u otras sustancias inorganicas, con aglutinante o sin el, incluso coloreado o decorado en la superficie o impreso, en bobinas o en hojas; Papel escribir, imprimir u otros fines gr	320100		5.00	0.00
48101200	De gramaje superior a 150 gr/m2	320100		5.00	0.00
48102100	Papel y carton del tipo del utilizado para escribir, imprimir u otros fines grafico, en el que mas del 10% en peso del contenido total de fibra este constituido por fibras obtenidas por procedimiento mecanico. Papel cuche o estucado ligero.	320100		5.00	0.00
48102900	Las Demas	320100		5.00	0.00
48114000	Papel y carton recubierto, impregnado o revestido de cera, de parafina, de estearina, de aceite o de glicerina	320100		15.00	0.00
49040400	Papel Kraft para Fundas	320100		10.00	0.00
40042100					



	CAJAS DE CARTON IMPRESOS	320200		24.80	10.00
48191000	CAJAS DE PAPEL O CARTON ONDULADO (2)	320200		25.00	10.00
48192000	CAJAS Y CARTONAJES, PLEGABLES DE PAPEL O CARTON SIN ONDULAR (2)	320200		24.80	10.00
48192000	Cajas de carton	320200		24.80	10.00
48191000	Cajas de Cartón	320200		25.00	10.00
	Total	320200	17	24.81	10.00
48219000	Etiquetas	329900		25.00	10.00
48193090	Separadores carton	329900		25.00	10.00
48030000	Papel tissue	329900		20.00	5.00
48195000	Vasos de papel encerado	329900		25.00	10.00
48211000	Etiquetas de papel precotadas	329900		25.00	10.00
	De los demas papeles.cartones,guatas de celulosa, cortados a su tamaño; los demas articulos(Autoadhesivos)	329900	_	30.00	10.00
48239090	De los demas papeles.cartones,guatas de celulosa, cortados a su tamaño; los demas articulos(Los demas)	329900		30.00	10.00
48202000	Cuadernos	329900		30.00	10.00
	Etiquetas de todas clases, de papel o carton, impresas	329900	3	25.00	10.00
48211000	Cuellos y etiquetas	329900	/	25.00	10.00
48211000		329900		25.00	10.00
48181000	Papel higienico	329900		30.00	15.00
48182000	Pañuelos y toallitas faciales	329900		30.00	15.00
	Pañales, compresas y tampones higienico y articulos higienicos similares	329900		30.00	15.00
48193010	Sacos Papel Kraft	329900		25.00	10.00
48193010	Multipliegos	329900		25.00	10.00
48193090	Los demás	329900		25.00	10.00
48194000	Los demás sacos; bolsas y cucuruchos	329900		25.00	10.0
48211000	Etiquetas de papel o carton impresas	329900		25.00	10.00
48219000	Las demas	329900		25.00	10.00
	Total	329900	17	27.48	12.23
49081000		330100		30.00	0.00
49089000		330100		30.00	10.00
49090000		330100		30.00	15.00
49100000		330100		30.00	15.00
	Libros, folletos e impresos similares, en hojas suentas incluso plegadas	330100		3.00	0.0
	Diarios y publicaciones periodicas que se publiquen 4 veces p/semana como minimo	330100		5.00	0.0
	Albumes o libros de estampas para niños y cuadernos infantiles p/dibujar o colorear	330100		3.00	0.0
49119900	Las demas	330100		30.00	15.0
	Total	330100	17	6.48	1.7
27100072	Aceites Blancos (de Vaselina o Parafina)	340600		25.00	5.0
	Aceite para Husillo (spindle oil)	340600	***********	24.98	5.0
	Aceites Lubricantes (Los Demás)	340600		25.00	5.00
	Aceites Aislantes Para Uso Eléctrico	340600		25.00	5.0
	Aceites para Transmisión y Frenos Hidraúlicos	340600		25.00	10.0
27100079	Lubricantes	340600		25.00	5.0
	Total	340600	12	25.00	5.00
	Cloro	350100		10.00	5.00

		050400		7 00	
29173200 29173410		350100 350100		5.00 5.00	0.0
		CONSIDERATION	,		
29173490		350100 350100		5.00 5.00	5.0
29173500	I I I I I I I I I I I I I I I I I I I	350100		2000	0.0
	oro liquido o en polvo o en plastilla	350100		10.00	5.0
28112100 Ad		TOTAL CONTROL OF THE PARTY OF T		10.00	0.0
	enzonato de sodio	350100		3.00	0.0
The second secon	onoetalonamina (MEA)	350100		3.00	0.0
32049000 C		350100		15.00	0.0
32049000 Cd		350100 350100		15.00	0.0
	ditivo brillador de botellas			20.00	0.0
	arbonato de calcio	350100		10.00	0.0
	as Argon Comprimido otal	350100 350100	13	10.00 10.07	5.0 1.8
The state of the s	oono Nitrogenado	350200		5.00	0.0
	oono Potasico	350200		5.00	0.0
31051000 Al		350200		5.00	0.0
31055100 At		350200		5.00	0.0
31059020 At		350200	14	3.00	0.0
	oono Mezcla de Microelementos	350200	Wy	5.00	0.0
31021000 Ui	rea	350200		0.00	0.0
To	otal	350200	13	3.08	0.0
38081090 In:	secticides	350300		0.00	0.0
38082020 Fu	ungicidas	350300		0.00	0.0
38083090 H	erbicides	350300		0.00	0.0
To	otal	AERE VER 350300	13	0.00	
39031900	I I air	350400		10.00	0.0
39032010		350400	16 -	10.00	0.0
39039010		350400		10.00	5.0
39042110		350400	100	10.00	0.0
39042120		350400		10.00	0.0
39042210		350400		10.00	5.0
39042220		350400		10.00	0.0
39043020	lie.	350400		10.00	0.0
39044010		350400		10.00	0.0
39051100		350400		10.00	0.0
39051900		350400		10.00	0.0
39059000		350400		10.00	5.0
39061000		350400		10.00	0.0
39069010		350400		10.00	0.0
39069090		350400		10.00	0.0
39075000		350400		10.00	0.0
39079100		350400		10.00	5.0
39079900		350400		10.00	0.0
39093000		350400		10.00	5.0
39094000		350400		10.00	0.0
39095000		350400		10.00	0.0
39111090		350400		10.00	3.0
	roductos de polietileno	350400		10.00	0.0
39079900 Pr	reformas p/fabricación botellas	350400		10.00	0.0
20054400 D	áscas(PET)	200.451			
39031100P	olimeros de acetato de Vinilo	350400		10,00	0

39043020	Compuesto de Pvc	350400		10.00	0.0
39041000	Resina de Pvc	350400		10.00	0.0
39075000	RESINAS ALCIDICAS	350400		10.00	0.0
39094000	RESINAS FENOLICAS	350400		10.00	0.0
39095000	PULIURETANOS	350400		10.00	0.0
39061000	POLIMEROS ACRILICOS	350400		10.00	0.0
39051900	POLIMEROS DE ACETATO DE VINILO O	350400		10.00	0.0
39079100	NO SATURADOS	350400		10.00	5.0
39079900	LOS DEMAS	350400		10.00	0.0
	Total	350400	14	10.00	0.0
32089010	Pinturas de Agua	350500		25.00	10.0
32091010	Pinturas de Aceite	350500		25.00	10.0
32091010	Barnices	350500		25.00	10.0
32091020	Barniz	350500		25.00	10.
32149000	Compuesto o pegamento	350500		25.00	10.0
32091020	Barniz para imprenta	350500		25.00	10.0
	Pinturas y barnises a base de polimeros sinteticos o naturales modific. (Pintura)	350500		25.00	10.
	Masilla, cemento de resina y otros mastiques (Los demas)	350500		25.00	10.
32099020	Barnices (los demas barnices)	350500	7	25.00	10.
	Total	350500	13	25.00	
30021020	***	350600		5.00	0.
30049090	Soluciones Intravenosas/Sueros	350600		5.00	0.
29224290	Acido malico	350600		3.00	0.
29393000	Aspartame	350600		3.00	0.
	Guantes Desechables	350600		10.00	0.
	Total	350600	13	5.05	
	Univers	adad de		-	
	Jabones solidos para lavar	350700			
34011100		350700		30.00	15.
	Detergentes	350700		40.40	0.
330510001	Shampoo	350800		30.00	15.
	Decrizados				
33052000		350800		30.00	-
33052000 33059000	Rinse	350800		30.00	15.
33052000 33059000	Rinse Cremas Dentales	350800 350800	13	30.00 40.40	15. 15.
33052000 33059000 33061000	Rinse Cremas Dentales Total	350800	13	30.00 40.40 34.37	15. 15. 15. 12.
33052000 33059000 33061000 33021000	Rinse Cremas Dentales Total Nectares	350800 350800 350300 359900	13	30.00 40.40 34.37	15. 15. 12.
33052000 33059000 33061000 33021000 35061000	Rinse Cremas Dentales Total Nectares Colas y Adhesivos	350800 350800 350300 359900 359900	13	30.00 40.40 34.37 20.00 25.00	15. 15. 12. 5. 15.
33052000 33059000 33061000 33021000 35061000 35052000	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas	350800 350800 350300 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00	15. 15. 12. 5. 15.
33052000 33059000 33061000 33021000 35061000 35052000 35069100	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas Adhesivos a base de caucho o de materias plasticas	350800 350800 350900 359900 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00 25.00 25.00	15. 15. 12. 5. 15. 10.
33052000 33059000 33061000 33021000 35061000 35052000 35069100	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas Adhesivos a base de caucho o de materias plasticas Los demas	350800 350800 350900 359900 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00 25.00 25.00	15. 15. 12. 5. 15. 10. 10.
33052000 33059000 33061000 33021000 35061000 35052000 35069100 35069900 35019010	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas Adhesivos a base de caucho o de materias plasticas Los demas Colas de caseina	350800 350800 360300 359900 359900 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00 25.00 25.00 25.00	15. 15. 12. 5. 15. 10. 10.
33052000 33059000 33061000 33021000 35061000 35052000 35069100 35069900 35019010 35019090	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas Adhesivos a base de caucho o de materias plasticas Los demas Colas de caseina Los demas	350800 350800 350800 359900 359900 359900 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00 25.00 25.00 25.00 25.00 25.00	15. 15. 12. 5. 15. 10. 10.
33052000 33059000 33061000 33061000 35061000 35052000 35069100 35069900 35019010 35019090 33021000	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas Adhesivos a base de caucho o de materias plasticas Los demas Colas de caseina Los demas Extractos de cola, lima-limon, franbuesa, uva, fruit punch, te, piña, etc.	350800 350800 350800 359900 359900 359900 359900 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00 25.00 25.00 25.00 25.00 20.00	15. 15. 12. 5. 15. 10. 10. 10. 5.
33052000 33059000 33061000 33061000 35061000 35052000 35069100 35019010 35019090 33021000	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas Adhesivos a base de caucho o de materias plasticas Los demas Colas de caseina Los demas Extractos de cola, lima-limon, franbuesa, uva, fruit punch, te, piña, etc. COLAS (COLA BLANCA) (2)	350800 350800 350800 359900 359900 359900 359900 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00 25.00 25.00 25.00 20.00 20.00 20.00	15. 15. 12. 5. 15. 10. 10. 10. 5.
33052000 33059000 33061000 33061000 35061000 35052000 35069100 35019010 35019010 35019090 33021000 35052000 35052000	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas Adhesivos a base de caucho o de materias plasticas Los demas Colas de caseina Los demas Extractos de cola, lima-limon, franbuesa, uva, fruit punch, te, piña, etc. COLAS (COLA BLANCA) (2) colas-cola para encuadernacion	350800 350800 350800 359900 359900 359900 359900 359900 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00 25.00 25.00 25.00 20.00 20.00 20.00 25.00	15. 15. 12. 5. 10. 10. 10. 5. 5.
33052000 33059000 33061000 33061000 35061000 35052000 35069100 35019010 35019090 33021000 35052000 35052000 35052000	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas Adhesivos a base de caucho o de materias plasticas Los demas Colas de caseina Los demas Extractos de cola, lima-limon, franbuesa, uva, fruit punch, te, piña, etc. COLAS (COLA BLANCA) (2) colas-cola para encuadernacion Adhesivos a base de cauchos o de materias plasticas (incluidas las resinas artificales	350800 350800 350800 359900 359900 359900 359900 359900 359900 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00 25.00 25.00 25.00 20.00 20.00 20.00 25.00 25.00 25.00 25.00 25.00	15. 15. 12. 5. 15. 10. 10. 10. 5. 5.
33052000 33059000 33061000 33061000 35061000 35069000 35069900 35019010 35019090 33021000 35052000 35052000 35069100	Rinse Cremas Dentales Total Nectares Colas y Adhesivos Colas Adhesivos a base de caucho o de materias plasticas Los demas Colas de caseina Los demas Extractos de cola, lima-limon, franbuesa, uva, fruit punch, te, piña, etc. COLAS (COLA BLANCA) (2) colas-cola para encuadernacion Adhesivos a base de cauchos o de materias	350800 350800 350800 359900 359900 359900 359900 359900 359900 359900 359900	13	30.00 40.40 34.37 20.00 25.00 25.00 25.00 25.00 20.00 20.00 20.00 25.00	15. 15. 12. 5. 15. 10. 10. 10. 5.

	ETILENO EN ROLLOS O PASTAS PARA		1	1	
	MAQUINAS DE MONITOR DEXTRINA SOLVICOL	359900		10.00	0.00
	Concentrado bebidas	359900		20.00	5.0
	Colas de caseina	359900		25.00	10.0
33019010	Total	359900	13	21.77	7.9
	Total				10. Mar
	Tubos de caucho vulcanizado sin endurecer (Ej: juntas, codos o rcores)(Sin reforzar ni combinar de otro modo)	369900		20.05	10.0
40161000	Las demas manufacturas de caucho vulcanizado sin endurecer (De caucho celular)	369900		25.00	10.0
	Total	369900	14	20.96	10.0
39235000	Tapas y Galones Plasticos	370100		25.00	10.0
39233000	Bombonas, botellas, frascos y art. Similares	370100		25.00	10.0
	Los demas	370100		25.00	10.0
	Huacales Plasticos	370100		25,00	10.0
	Productos de pvc	370100		20.00	5.0
	Productos de policarbonato	370100		20.00	5.0
	Los demas productos de plasticos	370100	7	20.00	5.0
	Las demas manufacturas de plastico y manufacturas de las demas materias (Las	370100		29.98	15.0
39169000	demas) Monofilamentosbarras, varillas, y perfiles de plastico (De los demas plasticos)	370100		20.00	5.0
39172200	Tubos y accesorios de tuberia de plastico (De polimeros de propileno)	370100		20.00	10.
39172990	Tubos y accesorios de tuberia (Ej.: juntas, codos o racores) de plastico (Los demas)	370100		20.00	10.
39269090	Las demas manufacturas de plastico y manufacturas de las demas materias (Las demas)	370100		29.98	15.0
39232100	Sacos, bolsas de polimeros de etileno	370100	2	25.00	0.
39232900	Sacos, bolsas u cucuruchos de los demas	370100		25.00	0.0
39201000	Hojas, rollos, peliculas y laminas de polimeros de etileno con o sin impresion.	370100	rec	20.00	5.
39202000	Producto terminado:Pelicula en rollos de polipropileno biorientado BOPP con impresion.	370100		20.00	5.
39211900	Producto terminado: "DE LOS DEMAS PLASTICOS".Las demas hojas, peliculas, bandasy laminas de plastico(Rollos impresos y laminados, metalizados o no.)	370100		20.00	5.
39171000	Tripas plasticas	370100		20.00	5.
	Estructuras para sazon	370100		20.00	5.
39232100	Botellas de los demas plasticos	370100		25.00	0.
	Total	370100	14	24.68	9.
70109010	FRASCOS COLOR AMBAR HASTA 250 ML	380100	Fac	25.00	0.
	AMPOLLAS PARA PRODUCTOS FARMACEUTICOS	380100		10.00	0.
70109010	Botellas de vidrio	380100		25.00	0.
	Total	380100	15	24.95	
60464666		202000		30.00	15.
	Inodoro de porcelana (petite garzon, color)	380200		30.00	15.
	Lavamanos de porcelana (ellisse, color) Inodoro economico redondo c/tanque	380200 380200		30.00	15.
60101000	(porcelana) Inodoro alargado	380200	energy v	30.00	15
09101000	Inouoro alargado	300200	1	30.00	10.

69101000	Inodoro c/sifon tipo	380200		30.00	15.0
69101000	Inodoro de lujo de dos piezas	380200		30.00	15.0
69101000	Inodoro de lujo de una pieza	380200		30.00	15.0
69101000	Bidet de porcelana	380200		30,00	15.0
69101000	Pedestal pequeño para lavamanos de porcelana	380200		30.00	15.0
	Pedestal mediana para lavamanos de porcelana	380200		30.00	15.0
69101000	Lavamanos economico de porcelana 16"x11	380200		30.00	15.0
	Lavamanos de porcelana 19"x17"	380200		30.00	15.0
	Lavamanos de empotrar 18"x18"	380200		30.00	15.
69101000	Lavamanos de empotrar 20"x21"	380200	=	30.00	15.
69101000	Lavamanos de empotrar 24"x20"	380200		30.00	15.
	Lavamanos de lujo 21"x17" sin pedestal	380200	1	30.00	15.
	Lavamanos de lujo 23"x19"	380200		30.00	15.
69101000	Lavamanos de lujo 26"x22"	380200		30.00	15.
	Total	380200	15	30.00	
	Baldosas de ceramica pisos/pared	380300		25.00	15.
69089000	Baldosas de Ceramica	380300		25.00	15.
			15	25.00	
25232900	Cemento	380400	15	15.00	10.
12 (6)	Ferro-nickels (exportable)	390100	5		
		WP/			
72141000	Varillas y barras de hierro y acero	390200	16	20.00	5.
72171100	Alambre de Acero pulido	399900		20.00	10.
72171900	Alambre de Acero muelles colch	399900		20.00	10.
72173200	Alambre de Acero Galvanizado	399900		20.00	10.
			16	20,00	
74081900	Alambre de corte	409900	16	20.00	5.
7640000	TUDOO DE ALUMINIO	44,0000		25.00	5.
	TUBOS DE ALUMINIO	410200		25.00	10.
	Tanques acero inoxidable	410200		25.00	5.
	Envases tubulares para crema dental	41 0200		25.00	10.
/3101000	Tambores de Acero de 15 y 55 Galones Total	410200 410200	. 17	25.00	6.
73211110	Estufas a Gas	410300		30.00	15.
	Interiores	410300		30.00	15.
83099010	With the Control of t	410300		25.00	10.
4	Tapas de hojalata	410300		25.00	10.
	Bandeja para pintar	410300		30.00	15.
	Tapas de galon para maquinaria industrial	410300		25.00	10.
	Fregaderos	410300		30.00	15.
	Las demas manufacturas de aluminio (Los demas)	410300	1.40	25.00	5.
83113000	Varillas recubiertas y alambre relleno para soldar al soplete de metales comunes	41 03 00	:1	25.00	10.
83099010	Tapas metalicas	410300		25.00	10.
	MANUFACTURA DE HIERRO Y ACERO	410300		10.00	5.
	Clips	410300		25.00	5.

83099010	Tapas de Aluminio	410300		25.00	10.0
	Total	410300	17	29.18	13.9
	Art. de ferreteria y herramientas de mano	4104	17	16.12	5.0
	And de lefferent y nerramentas de mano			10.12	3.0
73130010	Alambre de Puas de acero Galv	419900		25.00	10.0
	Alambre de Puas de Hierro Galv	419900	= 1	25.00	10.0
	Malla Ciclonica de acero galvaniz	419900	180	25.00	10.0
	Grapas de Acero Galvanizado	419900		25.00	10.0
	Tela metalica	419900		25.00	10.0
73170020		419900		25.00	10.0
	Total	419900	17	25.00	
84818010	Terminales p/mangueras	420200		10.00	5.0
84145900	Ventiladores (Los demas)	420200		10.00	5.0
	Total	420200		10.00	
84151000	Acondicionadores de Aire	429900		30.00	15.0
TOTAL COMMENTS	Los demás armarios, vitrinas, mostradores	429900		25.00	15.0
	para produccion de frio				(A) Triber
84189100	Muebles proyectados p/incorporarles un equipo de produccion de frio.	429900	Wy	25.00	0.0
	Total	429900	17	28.81	
84425010	Revelador, solucion y gomas	439900	17	10.00	0.0
		100000		10.00	0.0
84182100	Refrigeradores en General	440100		00.00	45.0
The state of the s	Combinaciones de refrigerador y congelador	440100		30.00 30.00	15.0 15.0
84183000	con puertas exteriores separadas Congeladores -conservadores horizontales cap. Inferior o igual a 800 Lts.	440100	0	25.00	15.0
	Congeladores-conservadores verticales tipo armario, cap. Inferior o igual a 900 Lts	440100		25.00	15.0
85161000	Calentador electrico de agua 10 gal.	440100	100	30.00	15.0
	Total	440100	17	29.62	
	Transformadores electricos, convertidores electricos estaticos (De potencia inf. O igual a	460100		20.00	5.0
85444100	1KVA) Cables	460300		24 31	10.0
	Los demas aislados con caucho	460300		25.00	10.0
	Los demas aislados con materiales plásticos	460300	17	25.00	10.0
				20.00	9.8
85061110	Pilas Secas	460400		25.00	10.00
	Acumuladores Electricos	460400		25.00	10.00
	Total	460400	17	25.00	10.00
85100010	Porteo Floridas y				
00122010	Partes Electricas para vehiculos	469900		20.00	10.00
	IG.	469900	17	20.00	10.00
85122090	Total	469900	171	20.00	
85122090			TI I		
85122090 94021010	Total Sillones de Dentista	480100	u u	10.00	
94021010 94021090	Sillones de Dentista	480100 480100	17	10.00	0.00
94021010 94021090 94029020		480100		10.00	

87071000		490100		30.00	5.0
SALE OF THE STATE OF THE		490100		30.00	5.0
87079010		490100		30.00	5.0
87079020	Total	490100	17	30.00	3.0
	Total	100.00			
94013000	Asientos giratorios	500100		30.00	15.0
94014000	Asiento-Camas	500100		30.00	15.0
94015000	Asientos Rattan	500100		35.00	15.0
94016100	Asientos armazon madera	500100		35.00	15.0
94016900		500100		35.00	15.0
94017100	Asientos armazon de metal	500100	780 (180 (30.00	15.0
94017900		500100		30.00	15.0
94018000	Otros Asientos	500100		30.00	15.0
94019010	Partes de Asientos	500100		30.00	15.0
94019090		500100		30.00	10.0
94031000	Muebles Metalicos de Oficina	500100		30.00	15.0
94032000	Otros Muebles Metalicos	500100		29.96	15.0
94033000	Muebles de oficina de madera	500100		35.00	15.0
94034000	Muebles de madera de cocina	500100	100	35.00	15.0
94035000	Muebles de madera dormitorio	500100	(1)	35.00	15.0
94036000	Muebles Tapizados	500100	1	35.00	15.0
94037000	Muebles de Plastico	500100		30.00	15.0
94038000	Muebles de otras Materias	500100		35.00	15.0
94039090	Partes: Otras	500100	* a	30.00	15.0
94041000	Somieres	500100		30.00	15.0
94042100	Colchones de caucho/plastico	500100		30.00	15.0
94042910	Colchones de resortes metalicos	500100		30.00	15.0
	Total	500100	17	31.19	14.9
96061000	Botones sin Forro Univer	Sic 2 ₅₀₉₉₀₀	e	20.00	0.0
96062100		509900		20.00	0.0
	Total	500900	17	20.00	3.50
	Grand Total			33.99	
27100019	Gasolina	340100		5.00	0.0
27100050	Gas-Oil	340200		5.00	0.0
27100060		340300		5.00	0.0
	Gas Liquado	340400		5.00	0.0
	Kerosene	340500		5.00	0.0
	Total	340500	12	5.00	0.
	Total Nominal Protection Rate for Manufact			32.47	17.

Table B.3: Nominal Protection of Agricultural Activities

Prod. Code	Producto	Activ. Code	Nom. Prot.	Total Prot.	Tariff 2000
10200 M	laíz en grano	3	85.17	85.17	85.17
10300 S	orgo	3	5.00	13.40	5.00
30100 M	laní en cáscara	3	5.00	13.40	5.0
30200 Fr	ruto de palma africana	3	5.00	13.40	5.0
	tras semillas oleaginosas	3	5.00	13.40	5.00
	abuya o sisal	3	5.00	13.40	5.00
The state of the s	abichuelas*	3	69.55	69.55	69.5
15 4 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	uandules	3	25.00	35.00	15.0
	tras leguminosas	3	25.00	35.00	15.0
60100 Y		3	25.00	35.00	15.0
60200 B		3	25.00	35.00	- 15.0
60300 P		3	25.00	35.00	15.0
60400 Ñ		3	25.00	35.00	15.0
60500 Y		3	25.00	35.00	15.0
	ebolla y cebollín*	3	37.87	37.87	37.8
60700 A		3	34.53	34.53	34.5
60800 G		3	25.00	35.00	15.0
	Otros tubérculos, bulbos y raíces	3	25.00	35.00	15.0
70100 T		3	25.00	35.00	10.0
70200 L	NAME OF THE PARTY	3	25.00	35.00	15.0
70300 A		3	25.00	35.00	15.0
70400 A		3	25.00	35.00	15.0
	erenjena	OUAERERE VI3	25.00	35,00	15.0
	anahoria	, 3	25.00	35.00	15.0
70700 R		versia.	25.00	35.00	15.0
	Remolacha	3	25.00	35.00	15.0
70900 R	DEDITIONS (U.S.)	3	25.00	35.00	15.0
71000 P		3	25.00	35.00	15.0
	Molondrones	3	25.00	35.00	15.0
71200 C		3	25.00	35.00	15.0
	Otras hortalizas	3	25.00	35.00	15.0
80100 P	A State of the sta	3	25.00	35.00	15.0
80200 G	Mary 2017	3	25.00	35.00	15.0
80300 P		3	25.00	35.00	20,000
80400 A		3	25.00	35.00	100000
80500 0		3	25.00	35.00	V 03051066
80600 L		3	25.00	35.00	
80700 M	4 -	3	25.00	35.00	
80800 0		3	35.00	45.80	
	Otras frutas	- "	55.00	10.00	, 5.0
90100					
	Achiote o bija				
	Plantas vivas y ornamentales	-			
	Otros productos agrícolas n.e.p.] 3	25.00	35.00	15.0
99900	otros productos agricolas n.e.p.	3	23.00	33.00	10.0
99900					
	F04.04	 	04.05	20.50	22.6
	Total *) Tariff Equivalent	da energia en en en en	31.35	39.56	22.0

^(*) Tariff Equivalent.

Total protection rates include VAT and excise taxation differentials



Table B.4: Import Tariffs on Inputs and Capital Goods

(in %)

Description	Tariff Rates
Cereals	0.00
Export Crops	0.00
Oilseeds	4.97
Textile Fibers	0.00
Leguminous	25.00
Root Crops	10.40
Vegetables	25.00
Fruits	35.00
Other agricultural products	11.14
Live animals	3.82
Other animal products	13.89
Forestry	11.95
Fisheries	10.00
Mineral coal	5.00
Petroleum	5.00
Metallic minerals	5.00
Stone, sand and clay	5.50
Salt	9.16
Other minerals	5.00
Slaughtering	15.04
Animal and vegetable oils and fats	11.51
Dairy products	19.84
Grain mills	6,45
Bakery Universidad	40.00
Sugar refining	23.24
Other food products	12.06
Alcoholic beverages	27.12
Non-alcoholic beverages	30.00
Tobacco manufacturing	20.00
Textiles, garments, and leather	23.37
Wood products	16.28
Paper pulp, paper packing	9.41
Printing	20.25
Petroleum refining	18.61
Chemical products	8.62
Rubber products	19.92
Plastic products	23,44
Non-metal industries	18.81
Iron and Steel basic products	13.24
Non-ferrous products	12.47
Metal products	22.16
Machinery of general use	14.26
Machinery for particular uses	8.17
Household equipment	26.02
	SA10440574300
Office equipment	8.36

Radio, TV and communications equipment	18.05
Watches, optical instruments	13.99
Transport equipment	17.34
Furniture and other manufacturing	26.88
Metal and non-metal waste	12.01
Average Tariff Rate	15.69

Notes: The weights for the average tariff rate are those of intermediate consumption

