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THE TRADE IMPACT OF THE EURO-MEDITERRANEAN FREE TRADE AREAS  
ON NORTH AFRICAN COUNTRIES

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ABSTRACT

The paper deals with the quantitative trade impact by sectors and at a very disaggregated level of the implementation of free trade area agreements between the EU and Mediterranean countries towards the years 2008-2010 according to the strategy adopted in the framework of the Euro-Mediterranean Partnership. The paper focusses on the Tunisia-EU FTA. For the investigation, a partial equilibrium model is adopted, allowing for the separate evaluation of different static effects. The paper deals also with the likely comparative static effects of concluding Free Trade Area Agreements between Tunisia and other Mediterranean countries. Among the latter, Tunisia seems to be the country most affected by the Partnership. It appears that the Partnership will deepen the asymmetric trade interdependence between the EU and Mediterranean Countries. The static trade effects appear to be negative.

## Introduction

This paper is part of a larger research project where I try for the first time to evaluate empirically the trade impact by sectors and at a very disaggregated level of the implementation by the years 2008-2010 of free trade agreements between the European Union and several Mediterranean Non Member Countries (MNMCS) according to the economic strategy adopted in the context of the so-called Euro-Mediterranean Partnership launched in Barcelona(Spain) in November 1995<sup>1</sup>. I also try to simulate the static effects of the conclusion of FTAs between different MNMCS which is one of the middle- or long-term aims indicated in the Barcelona Declaration. This paper will focus on the static trade effects on all industrial sectors of Tunisia of implementing the 1995 FTA agreement between the latter and the EU.

In the simulations made on the basis of economic models, which are presented below, I make the simplifying assumption that industrial free trade between the EU and Tunisia is being introduced right away in 1996 (and not in 2008, as contemplated in the 1995 Agreement). Therefore when I will make later on an interpretation of the simulations made, we will have to take into account that the results obtained give us an indication of the "maximum" effect which could derive from the implementation of the FTA.

In the second part of the paper I explore the trade effects of the implementation of industrial free trade between Tunisia and Egypt and between Tunisia and Morocco. This choice is based on the following:

- 1) The press has informed in different occasions that there have been contacts among the above countries in this respect.
- 2) There are not enough data regarding Jordan, Syria and the Lebanon.
- 3) Currently, there are not any political obstacles hindering bilateral trade between Tunisia and the two other North African countries mentioned. What hinders trade are most-favoured-nation tariffs and quantitative restrictions. Moreover, the three countries have been proceeding since a number of years with the

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reform and opening of their economies in cooperation with the IMF and the World Bank. On the other hand trade relations between Tunisia (and other Arab countries) and Israel are not "normal", i.e. "GATT-driven". Even trade between Israel and Jordan, two countries at peace with each other, actual trade flows are very far from representing the "cruising speed" potential corresponding to a state of normalization.

Methodology used to estimate the impact of the MNMCs tariff liberalization in favour of the EU on import trade flows

I use a partial equilibrium approach, which is the only suited to sectorial impact studies. The methodology used to calculate the value of trade creation and diversion is similar to the one used by Cline et al.(1978), Laird and Yeats (1990), Buttelman and Meller (1992) and Karemera and Koo (1994).

A first potential effect deriving from the elimination of tariffs by the MNMC on EU imports is what is called here the value of trade creation (VTCj), i.e., the value of new imports that the MNMC does from the EU. This increase in the MNMCs imports of a given class of products (for us an Harmonized System number) can be estimated by the following equation:

$$VTCj = VMPCjo * Em * tj / (1 + tjo) \quad (1)$$

where

VTCj = Value of trade created in sector j of MNMCs

VMPCjo = Initial value of imports which the MNMC does in sector j originating in the EU. This value is the product of the quantity imported from the EU times the export unit value of the good exported by the EU to the MNMC (i.e. the world price augmented, depending on which case one considers, by the tariff imposed by the EU).

Em = Price elasticity of the MNMCs import demand in sector j.

tj = Percent change in the tariff applied by the MNMC in sector j as a result of applying the FTA regime to the EU.

tjo = Initial level of the tariff applied by the MNMC on imports of sector j originating in the EU before implementing the FTA.

Equation (1) assumes that the MNMC is a small importer in world terms, a quite realistic assumption and that any change in its trade policy is not going to affect world prices. From the MNMCs perspective we assume simply that the export-supply price-elasticity of the ROW (Rest of the World) is infinite. The FTA is not going to affect the terms of trade between the MNMC and the ROW.

The second effect produced is what we call here the value of trade diversion (VTD<sub>j</sub>), i.e. the substitution of external supply sources derived from a change in relative prices caused by the MNMCs discriminatory trade liberalization in favour of the EU. In other words it is the difference between what was imported before the FTA from the ROW and what is imported from it after the FTA is implemented. We make then the quite realistic assumption that it is the country benefitting from the preference (in our case the EU) which will export to the preference-donor country (here the MNMC) this difference<sup>2</sup>. This effect can be estimated in three different ways.

When one does not know the elasticity of substitution between different supply sources, one can use two variants. The first is the Baldwin-Murray formula :

$$VTD_j = VTC_j * VMROW_{jo} / Q_{jo} \quad (2a)$$

where:

VTD<sub>j</sub> = Value of trade diverted in sector j of the MNMC.

VMROW<sub>jo</sub> = Value of imports that the MNMC does in sector j from ROW before implementation of the FTA

Q<sub>jo</sub> = Value of the MNMCs domestic production in sector j

However and given that Q<sub>jo</sub> is a figure which is frequently unknown, Verdoorn has suggested the following formula, largely accepted among scholars interested in evaluating empirically the trade effects of economic integration:

$$VTD_j = VTC_j * ( VMPC_{jo} / VMPC_{jo} + VMROW_{jo} ) \quad (2b)$$

When one does have explicit values for the elasticity of

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<sup>2</sup> See Baldwin and Murray 1977, p.33, Sawyer and Sprinkle, 1989, p.64.

substitution between different sources of supply, one can use the formula of Laird-Yeats<sup>3</sup> :

$$VTD_j = \frac{VMPC_{jo} * VMROW_{jo} * E_s [- t_j / (1 + t_{jo}) ]}{VMPC_{jo} + VMROW_{jo} + VMPC_{jo} * E_s [- t_j / (1 + t_{jo})]} \quad (2c)$$

where

$E_s$  = Elasticity of substitution between the MNMCs imports of sector  $j$  originating in ROW and those originating in the EU

In my research, after an in-depth analysis of pros and cons of each formula<sup>4</sup> in the case studies here (i.e. the creation of FTAs between MNMCs and the EU) and of the available data, I have opted for Verdoorn's formula (2b). The World Bank and UNCTAD have in the past profusely applied (2c), using 1.5 as the standard value of the elasticity of substitution of imports ( $E_s$ ) for all sectors and for all countries for lack of something better. Other authors have used a value of 3 and others 2. It must be stressed however that all are guess-estimates, not values estimated econometrically, something which seems pretty, if not totally arbitrary. According to some econometricians, all the values usually adopted lead to an overestimation of the value of trade diverted ( $VTD_j$ ). Therefore in our study we have disregarded the Laird-Yeats formula and opted openly for (2b), for which data are incidentally available.

The total trade effect for a given sector (i.e. a specific HS category) is given by the sum of  $VTC_j$  and  $VTD_j$  and is called the trade expansion effect between the FTA countries ( $TTE_j$ ), i.e.:

$$TTE_j = VTC_j + VTD_j \quad (3)$$

$TTE_j$  can be interpreted as the total increase in the value of the MNMCs imports from the EU due to the discriminatory elimination of his tariffs on EU-originating imports. This is the value of the increase in exports by the EU to the MNMC and is composed by two elements: the value of new imports by the MNMC from the EU and the value of the MNMCs imports which have been diverted from the ROW to the benefit of the EU ( the  $VTD_j$  effect).

<sup>3</sup> Laird and Yeats (1991), p.85.

<sup>4</sup> See in particular the discussion by Sawyer and Sprinkle(1989) and Shiells et al.(1986).

Observe that the total effect is the sum of the two effects and not its difference; this contrasts with the formula for the estimation of the welfare impact on the MNMC of implementing the FTA with the EU, which is calculated in the following section.

Methodology used to estimate the impact of the MNMCs discriminatory trade liberalization in favour of the EU on its welfare

J. Viner (1950) created the concepts of trade creation and trade diversion to refer explicitly to the changes that the creation of Customs Unions would have on the economic welfare of its inhabitants, i.e. its individual consumers, the usual focus of interest of neoclassical trade theory. It is important to underline that Viner was not interested in finding out what would happen to trade flows (which is the object of our previous section) but rather what would happen to welfare (and thus indirectly to national income). The idea of Viner was that when a country reduces its tariffs, there is a trade creation effect which lifts welfare because expensive supply sources (less competitive import-competing domestic production) would be replaced by cheaper supply sources (imports from the partner country, here PC). Trade diversion, on the other hand, reduces welfare because cheap supply sources (imports from ROW) are replaced by dearer ones (imports from the partner country, here PC, to whom a tariff preference applies). The calculation of the Gains from Trade Creation (GTC) and the Loss from Trade diversion (LTD), which is what Viner refers to when speaking of trade creation and diversion, is complex and is based in an analysis of a partial equilibrium diagram which is included in an appendix divided in various subsections according to the initial assumptions made. From the analysis we derive formulas for GTC and LTD as follows:

$$GTC_j = 0.5 \cdot P \cdot MT_{j0} \cdot E_m \cdot (t_{j0} - t_{pcj})^2 / (1 + t_{j0}) \quad (4)$$

where:

$GTC_j$  = Gain from trade creation in sector j.

$P \cdot MT_{j0}$  = value of the MNMCs total imports in sector j before the FTA.

$E_m$  = Price-elasticity of the MNMCs import demand in sector j

$t_{j0}$  = (average) m.f.n. tariff applied by the MNMC in sector j

$t_{pcj}$  = (average) m.f.n. tariff applied by the EU in sector j

In this formula appear total imports, which implies that there can be a  $GTC_j$  even if the MNMC was not importing from the EU before the FTA<sup>5</sup>.

It is also obvious that  $GTC$  increases more than proportionately the larger the difference between the MNMCs tariffs and the EUs tariffs is. Observe as well that  $GTC$  is zero if import demand is perfectly inelastic.

Regarding  $LTD_j$  :

$$LTD_j = P * MT_{jo} * tpc_j \quad (5)$$

where :

$LTD_j$  = Loss derived from trade diversion in sector  $j$ .

Observe that  $LTD_j$  is zero in two cases. Either there were no imports of products of sector  $j$  before the FTA<sup>6</sup> or, else, the tariff imposed by the EU is zero, which implies that EU prices are equal or below ROW prices. Therefore, in such a case, even if as a result of the FTA agreement the MNMC substitutes imports from ROW by imports from the EU, this will not imply any additional cost for the MNMC. It is obvious that  $LTD_j$  will be larger, the larger is  $tpc_j$ , which in the present model is used as a proxy for the difference in production costs in the EU and in ROW (e.g. the US or Japan). In other words, prices applied by the EU in the MNMCs markets are equal to  $PROW_o * (1 + tpc_j)$ .

The net welfare effect ( $NWE_j$ ) is the difference between  $GTC_j$  and  $LTD_j$ :

$$NWE_j = GTC_j - LTD_j \quad (6)$$

Note that both  $GTC_j$  and  $LTD_j$  are equal or larger than zero and that  $NWE_j$  can therefore be a negative number if  $LTD_j$  is larger than

<sup>5</sup> This contrasts with the formula calculated for VTC, where only if there was before the FTA some trade between the future members to the FTA will there be some new trade flows created.

<sup>6</sup> Note that we include here all imports before the agreement and not only imports originating in non-member countries. The idea is that the increase in import unit costs as a result of tariff discrimination in favour of PC affects all the units previously imported and not only those originating in the ROW.

GTCj.

### Methodology used to simulate static effects of South-South FTAs

The assumption made in my research is that horizontal (South-South) FTAs between any two MNMCs (called thereafter MNMC1 and MNMC2) are formed after both conclude such an agreement with the EU. I estimate therefore the additional static effect of the creation of an FTA between MNMC1 and MNMC2 on imports and welfare of MNMC1. Then I repeat the same procedure for MNMC2. It can easily be proven that adding South-South FTAs hasn't any welfare effect on the Mediterranean partners. The only thing that these agreements do is to affect import flows of each MNMC, since the latter will start again to import from the second MNMC in the model goods regarding which the latter was internationally competitive and which had been evicted in favour of EU-originating goods after the first MNMC had signed an FTA with EU. This can be called reverse trade diversion. But apart from this, there will be also imports from the new Mediterranean partner which will substitute for imports originating previously from the Rest of the World (which in our case is the world minus the EU and minus the other Mediterranean partner country).

### Data used to calculate the different formulas

I use data from TRAINS (Trade Analysis and Information System), a program and data bank produced by UNCTAD, which integrates information on tariffs and NTBs with import data by country and going all the way up to a six-digit level of disaggregation according to the Harmonized Commodity Description and Coding System(HS)<sup>7</sup>. I have opted for a two-digit disaggregation level, which means doing all the calculations for a total of 71 industrial sectors.

### Assessment of the import demand price-elasticities by sectors

I was fortunate enough to dispose of good econometric import demand price-elasticities for 11 industrial sectors, estimated econometrically by Boudiaf (1997) representing more than 90% of Tunisia's industrial imports. Estimations were done on the basis of data for the period 1976 to 1993.

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<sup>7</sup> UNCTAD. TRAINS CD-Rom, Switzerland, 1996.



Analysis of the results of simulating a discriminatory tariff liberalization by Tunisia in favour of the EU on the basis of the model<sup>8</sup>

1) Macro-perspective

VTC represents 11.7% of Tunisian industrial imports (\$ million 829 in 1995), while VTD is 9.7% (\$ million 693), the total effect on trade flows reaching \$ bn 1.523 , i.e. 21.4% of total imports (all origins included) or 28.8% of imports originating from the EU. Welfare changes are less important, but non negligible. Globally-speaking, the trade diversion loss (LTD) reached \$ million 363, which represents a small percentage of the national product, i.e. 2.2% (although slightly more in national consumption terms). However LTD is sufficiently large to lead to a net welfare loss (NWE), valued \$ millions 258, i.e. 1.5% of the national product in 1995. If however we assume that EU exporters can organize themselves as an export cartel and that Tunisia lacks any negotiation leverage, the maximum total cost of trade diversion can reach easily 2 bn\$, i.e. 5.5 times more than the figure estimated before, equivalent to a decrease of the national product by 12.2%! This scenario is not entirely unrealistic in the case of Tunisia and regarding particular sectors(see below). Trade creation gains(GTC) are only \$ million 105, a very small figure. This certainly reflects the fact that import demand elasticities are also small.

Of course these results must be put in perspective since Tunisia is going to dismantle its tariff in an incremental way until 2008. And Tunisia can reduce the trade diversion loss until then by reducing its m.f.n. tariff in WTO negotiations (e.g. in the context of the coming Clinton Round) or by negotiating FTAs agreements with other key trade partners.

Note that, if we make abstraction of the eventual creation of EU export cartels to Tunisia, the results obtained here are much less pessimistic than the ones of Boudiaf(1997), who estimates the static loss of national income to reach 7%.

2) Sectorial analysis

The first thing to note is that when referring to the partial equilibrium analysis presented in Annex 1, for most product categories case number 3 is the relevant one. Out of 71 industrial sectors (i.e. HS categories), only for 8 of them is case number 1

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<sup>8</sup> See Annex 2, summing up the main results, as well as Annex 3 for the detailed results. (Extracted from the study prepared for the Catalan Institute for the Mediterranean).

the relevant one, since for the eight sectors more than 95% of 1995 Tunisian imports originated in the EU. In the case of HS 78 (lead and its manufactures), case number 2 is relevant, since here imports from the EU only represent 5% of total Tunisian overseas purchases. We note also that for all 71 HS categories, the CCT is lower than the Tunisian tariff.

The VTC and VDC are very large (more than \$ million 50) for cotton, synthetic fibers, clothing, mechanical machinery and electrical machinery.

Welfare-wise, the GTC is large for cotton, mechanical machinery, electrical machinery, cars and other vehicles. The LTD is large for the preceding categories in addition to plastic materials and its manufactures, synthetic yarn, synthetic and artificial fibers, knitted wear and other clothing. The net welfare change is particularly negative for plastic materials, cotton, synthetic fibers, clothing, mechanical machinery and cars. On the other hand a quite positive net welfare change is to be noted in the pharmaceutical sector, wood pulp and paper, cement, precious stones, tin and its manufactures, various manufactures made of common metals and ships. Finally should EU exporters form a cartel in the following sectors, the loss for Tunisia would be more than \$ million 100 for each of the following sectors: cotton, synthetic fibers, clothing (except knitwear), mechanical and electrical machinery and cars. While it is unlikely that this might happen with cotton, it is probable that such a policy might be conducted by large European car firms, which are already well implanted in Tunisia ( particularly French firms as Renault).

### Results of simulating the static effects of not-yet-formed South-South FTAs<sup>9</sup>

#### A. The Tunisia-Morocco FTA

##### a. Impact on Tunisian imports

The total trade effect (TTE) is extremely small, representing 0.08 % of Tunisia's total industrial imports or 10% of imports originating from Morocco.

By sectors, the VTC and the VTD are nil for many sectors since Morocco is not exporting currently goods from these sectors to Tunisia. On the other hand sectors with brightest perspective

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<sup>9</sup> See Annex 2, summing up the main results, as well as Annex 3 for the detailed results. (Extracted from the study produced for the Catalan Institute for the Mediterranean).

are mineral fuels, lead and its manufactures and tractors.

b. Impact on Moroccan imports

Here the TTE is larger, representing 0.11% of total industrial imports, i.e. 28.4% of Moroccan imports from Tunisia.

By sectors, prospects for an expansion of Tunisian exports seem relatively bright for inorganic chemical products, diverse manufactures made of common metals and mechanical machinery.

c. Global assessment

In terms of trade flows, Morocco's trade is more affected than Tunisia's in relative terms. And the VTC is inferior than VTD in both directions.

B. The Tunisia-Egypt FTA

a. Impact on Tunisian imports

The total trade effect (TTE) is extremely small, representing 0.09 % of Tunisia's total industrial imports but 23% of imports originating from Egypt in 1995.

By sectors, the VTC and the VTD are nil regarding many products as Egypt is not exporting them currently to Tunisia. On the other hand one sector has substantial expansion potential (more than \$ million 3.5): aluminum and its manufactures.

b. Impact on Egyptian imports

The TTE represents 8% of Egyptian imports from Tunisia.

By sectors, one stands aside, namely inorganic chemical products with a quite substantial export potential from Tunisia to Egypt.

c. Global assessment

In terms of trade flows, Tunisia's trade is much more affected than Egypt's in relative terms.

Some concluding remarks

To begin with, a comparison of the different simulations shows that the overall trade potential of Tunisia establishing an industrial FTA with Morocco (following suggestions made in the Barcelona Declaration) is extremely limited in absolute terms and when we compare it with the potential for an expansion of trade deriving from the EU-Tunisia FTA (the latter being 200 times as large!). Of the two South-South FTAs considered here, the one between Morocco and Tunisia is the more promising, relatively speaking: the TTE in both directions amounts to \$ million 14 (while for Tunisia-Egypt the corresponding figure is \$ million 7). Seeing things from Egypt, for the latter it would make more sense to get tariff-free access into the Israeli market, which is not only closer than the Tunisian or Moroccan ones, but is double as large as those two markets together. Communications and transport infrastructures are also much better. On top of it, to accede to Israel, only one border must be crossed; not so if the goods travel by land to the (two) Maghreb countries. Here potential exporters must cross at least two borders, the most problematic NTB in the Arab world.

Turning now to the EU-Tunisia FTA, the analysis clearly confirms what different empirical studies have found out, namely that the net static effects on Tunisia's welfare are going to be negative<sup>10</sup>. After a period of enthusiasm, even World Bank experts do acknowledge now this point. Of course, it can be argued that the so-called dynamic effects will be largely positive and largely compensate for the negative static effects. However as is well known, the quantification of dynamic effects is very problematic if not outright impossible. This opens of course the possibility to exaggerate their importance. It appears as well from studying potential welfare effects deriving from FTAs between the EU and other MNMCs (Egypt, Algeria and Morocco) that Tunisia is the worse affected by the discriminatory tariff dismantling in favour of the EU.

Note that the idea of the Partnership in its economic dimension was to raise Tunisia's economic welfare, in any case not to decrease it! Clearly, what we see here is that the discriminatory tariff dismantling in favour of the EU is going to be very costly. It stands to reason, that this negative outcome could have been compensated by having the EU reciprocate in agricultural products (including olive oil, fruit and vegetables), opening the perspective of real free trade for all products in both

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<sup>10</sup> See, e.g. Bistolfi (1995), Bensidoun and Chevallier(1996), Galal and Hoekman(1997), Hoekman and Djankov(1995), Hoekman(1995) for various opinions based on empirical research.

directions<sup>11</sup>. This lesson seems to have been learned by Egypt, which contrary to Tunisia has refused to conclude a FTA agreement with the EU if it does not contain an important agricultural chapter.

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<sup>11</sup> Tunisia had gotten tariff-free access into the EC market of industrial products already in 1977.

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Annex 1: Partial equilibrium analysis of an industrial tariff dismantling of a MNMC vis-a-vis imports from the EU.

In what follows we distinguish several cases according the assumptions made regarding 1) the initial existing tariffs in the MNMC and the EU and 2) the origin of imports before the implementation of the FTA. A common point to all the cases presented here is that we assume that the MNMC is a small open economy and therefore its import demand is facing an export-supply of the Rest of the World (i.e. the world minus the EU) which is perfectly price-elastic. (This is reasonable in the case of Tunisia).

Case 1: Perfectly elastic export supply in the EU, below the export supply of the ROW, as seen from the MNMC.

This case reflects the possibility, for instance, that because of differential transport costs, all MNMC imports came from the EU. The MNMC was importing already before the FTA exclusively from the EU, given that the most-favored nation tariff was to (quantity MPCo). Observe that the tariff prevailing in the EU must be smaller than the difference of transport costs to the MNMC from the ROW and those from the EU. In Case 1 there is no trade diversion by definition (there is nothing to divert), nor trade diversion loss. There is only trade creation because to is going to be eliminated. The GTC (welfare gain from trade creation) is given by the vertically-stripped triangle and can be calculated as follows:

$$GTC = 0.5 * t_o^2 * E_m * P * MPCo$$

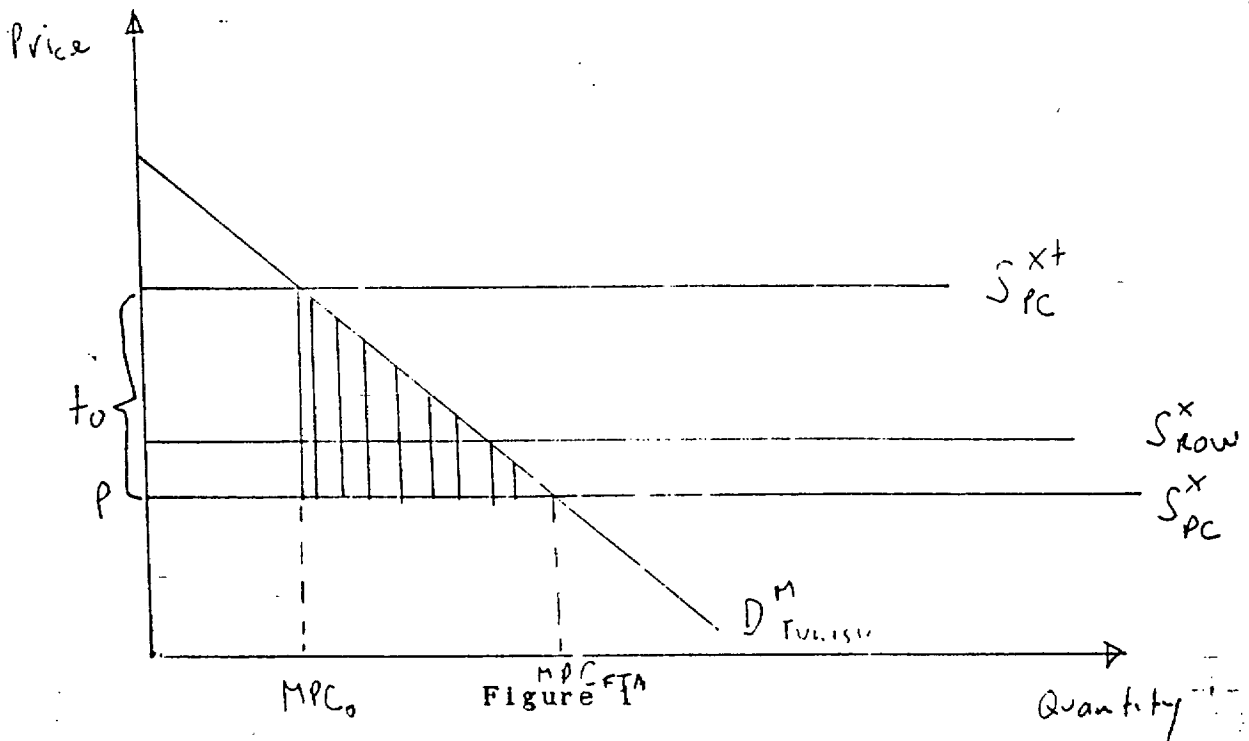
The fiscal revenue lost to the MNMC is  $FRL = P * MPCo * t_o$

The value of trade creation (VTC) is given by the expression:

$$VTC = P * MPCo * E_m * t_o / (1 + t_o), \text{ where}$$

$P * MPCo$  = the value of MNMCs imports from the EU before the FTA (i.e. total imports)





Case 2: Perfectly elastic export supply of the EU over and above the export supply curve of ROW.

In this case, before the agreement, all MNMC imports originated in the Rest of the World (quantity  $MROW_0$ ), given that the most favored nation tariff was  $t_0$ . Observe that the EU's tariff is  $t_{pc}$  and positive. Assuming that  $t_{pc}$  is smaller than  $t_0$ , after the FTA is implemented all what was previously imported before the agreement from ROW (including imports from the US) will be imported now from the EU. Therefore there is 100% trade diversion. Quite apart, there is a welfare gain from trade creation because  $t_0$  is going to be eliminated on imports originating in EU. The GTC is given by the area of the vertically-stripped triangle and can be calculated as follows:

$$GTC = 0.5 * P * MROW_0 * E_m * (t_0 - t_{pc})^2 / (1 + t_0)$$

where:

$P * MROW_0$  = Value of MNMC imports from ROW before the FTA.

The loss of fiscal revenue for the MNMC is

$$FRL = P * MROW_0 (1 + t_{pc}) * t_0$$

The value of trade creation (VTC) is given by the formula:

$$VTC = P * MPCo * Em * (to-tpc) / 1 + to$$

VTC is nil because there are no imports from the EU before the FTA agreement.

Given that a proxy to the value of trade diversion (VTD) is according to Verdoorn (see methodological discussion) as follows:

$$VTD = VTC * ( P * MPCo / P * MTo)$$

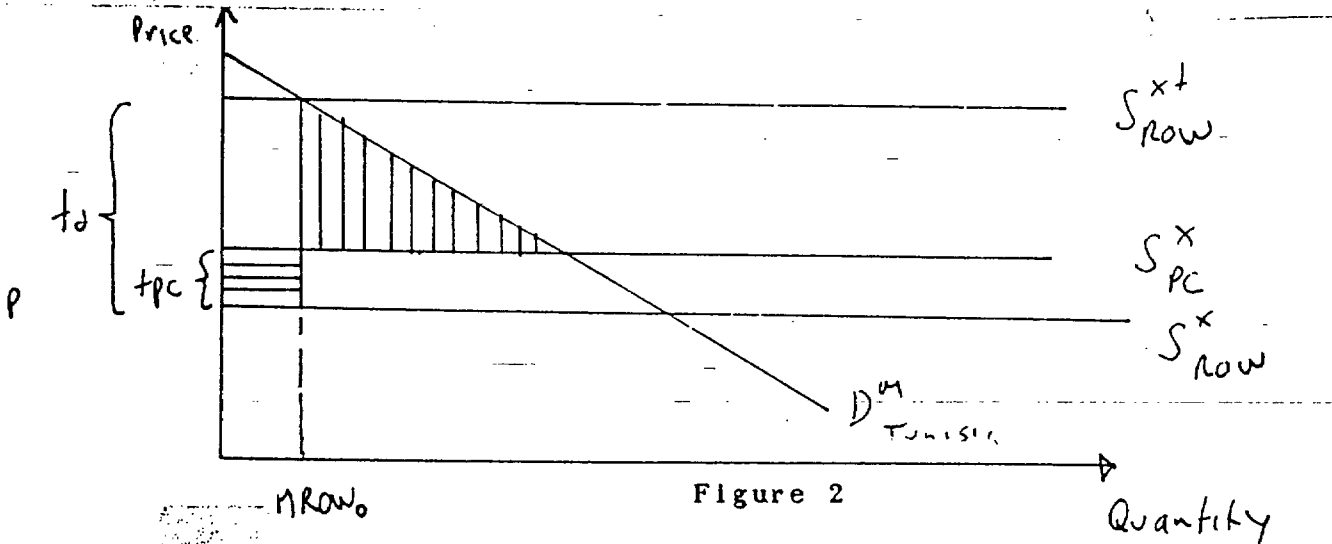
it follows that VTD is zero in this case since  $VTC = 0$

On the other hand, the welfare loss from trade diversion (LTD) can be equal to zero or positive since

$$LTD = tpc * P * MROWo$$

where

$P * ROWo$  = value of MNMCs imports originating from the ROW before the FTA (i.e. total imports)



Case 3: Export supply curve of EU intersecting from below the export supply of ROW.

In that case, before the FTA, some of the MNMCs imports originated in the EU (quantity MPCo), because the MNMCs m.f.n. tariff is to. MPCoMo was imported from ROW. Observe that the EU's tariff is zero (since the EU is competing with ROW in the MNMCs market). In that case after the FTA is in place there is 100% trade diversion. But there is no welfare loss due to trade diversion (LTD), because EU

prices are at the world level. There is also a positive GTC given by the vertically-stripped triangle, which is estimated as follows:

$$GTC = 0.5 * t_0^2 / (1 + t_0) * E_m * P * MTO$$

Also-  $FRL = t_0 * P * MROW_0$

and  $VTC = P * MPCo * E_m * t_0 / (1 + t_0)$  where

$P * MPCo$  = value of MNMC's imports originating from the EU before the FTA.

The value of trade diversion (VTD) can be estimated with the Verdoorn proxy:

$$VDC = VTC * ( P * MPCo / P * MTO )$$

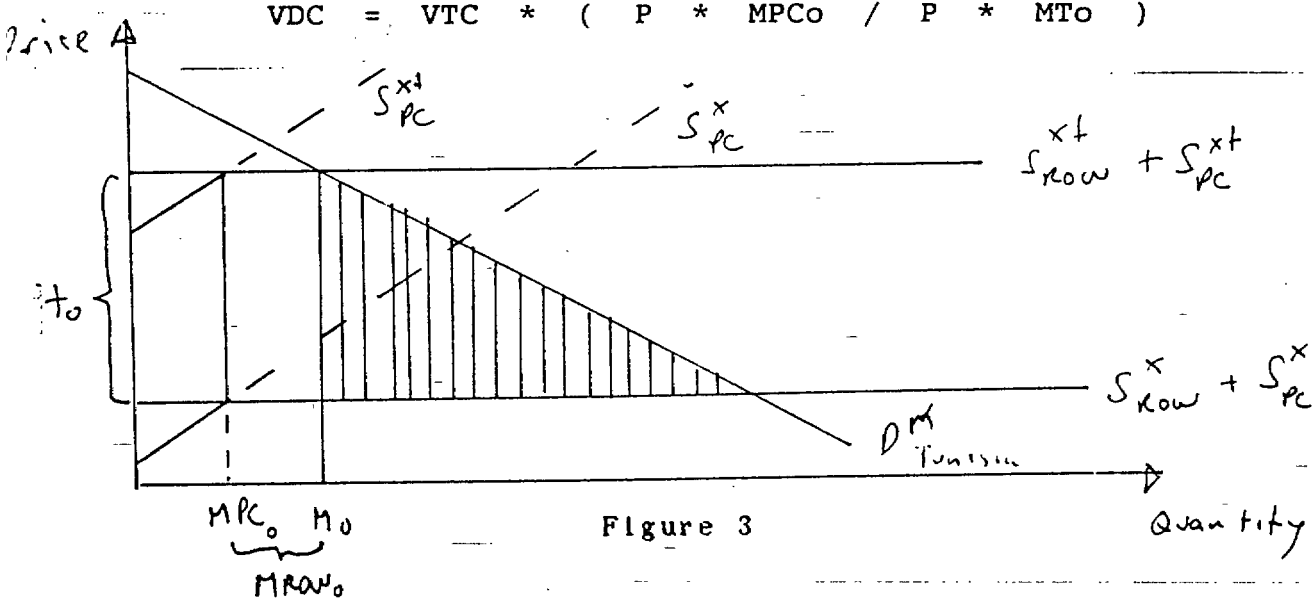


Figure 3

It goes without saying that in many real-life situations, it is case 3 which applies, but cases 1 and 2 cannot be ignored altogether. Finally according to this model, the FTA will not have any effect whatsoever when in the absence of imports from the EU before the FTA, it happens that the tariff of the partner country(EU) is higher than the MNMCs tariff. This is however in practice highly unlikely.

## TÚNEZ. EFECTOS SOBRE LAS IMPORTACIONES INDUSTRIALES DE ACUERDOS DE LIBRE COMERCIO

( Miles de dólares, Año Base = 1995 )

| REGIÓN O PAÍS        | VCC<br>( a ) | VDC<br>( b ) | VEC<br>( c ) | IMPORTACIONES<br>( d ) | PARTE<br>( c ) / ( d ) * 100 |
|----------------------|--------------|--------------|--------------|------------------------|------------------------------|
| CON LA UNION EUROPEA | 829603       | 693782,23    | 1523385      | 5282929                | 28.84                        |
| CON MARRUECOS        | 2745         | 3282.53      | 6027.91      | 59534                  | 10.13                        |
| CON EGIPTO           | 2717         | 3713.64      | 6431         | 27980                  | 22.98                        |

FUENTE: Estimación propia.

CUADRO A1: ARCHIVO DE DATOS PARA TÚNEZ

| CATEGORÍA DEL SISTEMA ARMONIZADO  | PORCENTAJE EN<br>IMP. TOTALES | MTOT    | MUE     | MRM     | MUE / MTOT |
|---|-------------------------------|---------|---------|---------|------------|
| 25 Sal; azufre; tierras y piedras; yesos, cales y cementos                          | 2.18%                         | 141325  | 44879   | 98446   | 31.76%     |
| 26 Minerales, escorias y cenizas  | 0.04%                         | 2643    | 1289    | 1354    | 48.77%     |
| 27 Combustibles minerales, aceites minerales y prod. de su destilación              | 12.29%                        | 796787  | 307644  | 489143  | 38.81%     |
| 28 Prod. químicos inorgánicos; compuestos inorgánicos/organ. de los metales         | 1.59%                         | 102739  | 32563   | 70176   | 31.69%     |
| 29 Productos químicos orgánicos   | 1.30%                         | 84471   | 68082   | 16389   | 80.60%     |
| 30 Productos farmacéuticos  | 2.22%                         | 144066  | 128639  | 15427   | 89.29%     |
| 31 Abonos   | 0.12%                         | 7441    | 4619    | 2822    | 62.07%     |
| 32 Extractos curtientes/tintóreos; taninos, sus derivados; pinturas                 | 0.82%                         | 53405   | 44222   | 9183    | 82.80%     |
| 33 Aceites esenciales y resinosos; prep. de perfumería, de tocador                  | 0.35%                         | 22402   | 20332   | 2070    | 90.76%     |
| 34 Jabones, agentes de superficie orgánicos, preparac. para lavar, etc              | 0.26%                         | 16752   | 14392   | 2360    | 85.91%     |
| 35 Materias albuminoides; prod. a base de almidón o de fécula modificados           | 0.19%                         | 12435   | 10949   | 1486    | 88.05%     |
| 36 Polvoras y explosivos; artículos de pirotecnia; fosforos..                       | 0.04%                         | 2527    | 1596    | 931     | 63.16%     |
| 37 Productos fotográficos o cinematográficos  | 0.31%                         | 19981   | 15562   | 4419    | 77.88%     |
| 38 Miscellaneous chemical products.   | 0.94%                         | 61129   | 53304   | 7825    | 87.20%     |
| 39 Materias plásticas y manufacturas de estas materias                              | 4.37%                         | 283345  | 210005  | 73340   | 74.12%     |
| 40 Caucho y manufacturas de caucho  | 1.26%                         | 81625   | 54371   | 27254   | 66.61%     |
| 41 Pielés (excepto la peletería) y cueros   | 1.56%                         | 101235  | 93539   | 7696    | 92.40%     |
| 42 Manuf. de cuero; articul. de guarnicionería, talabartería, viaje....             | 0.13%                         | 8293    | 7460    | 833     | 89.96%     |
| 43 Peletería, confecciones de peletería; peletería artificial/facticia              | 0.03%                         | 1780    | 1741    | 39      | 97.81%     |
| 44 Madera, carbón vegetal y manufacturas de madera                                  | 1.98%                         | 128577  | 81189   | 47388   | 63.14%     |
| 45 Corcho y sus manufacturas  | 0.01%                         | 425     | 64      | 361     | 15.06%     |
| 46 Manufacturas de espartería o de cestería   | 0.01%                         | 500     | 287     | 213     | 57.40%     |
| 47 Pasta de madera o de otras materias fibrosas celulósicas; papel..                | 0.74%                         | 48273   | 8861    | 39412   | 18.36%     |
| 48 Papel, cartón; manufact. de pasta de celulosa, de papel/de cartón                | 2.07%                         | 134095  | 97779   | 36316   | 72.92%     |
| 49 Productos editoriales, de la prensa/de otras industrias gráficas                 | 0.42%                         | 27011   | 21327   | 5684    | 78.96%     |
| 50 Seda   | 0.06%                         | 3545    | 997     | 2548    | 28.12%     |
| 51 Lana y pelo fino u ordinario; hilados y tejidos de crin                          | 0.68%                         | 43955   | 42770   | 1185    | 97.30%     |
| 52 Algodón  | 10.13%                        | 656901  | 584153  | 72748   | 88.93%     |
| 53 Las demás fibras textiles vegetales; hilados y tejidos de papel                  | 0.14%                         | 8745    | 8124    | 621     | 92.90%     |
| 54 Filamentos sintéticos o artificiales   | 2.03%                         | 131536  | 113277  | 18259   | 86.12%     |
| 55 Fibras sintéticas o artificiales discontinuas                                    | 5.44%                         | 352401  | 325278  | 27123   | 92.30%     |
| 56 Guata, fieltro, telas sin tejer; hilados especiales; cordones, etc..             | 0.66%                         | 42588   | 39925   | 2663    | 93.75%     |
| 57 Alfombras y demás revestimientos para el suelo, de mater. textiles               | 0.01%                         | 872     | 670     | 202     | 76.83%     |
| 58 Tejidos especiales; superfic. textiles con pelo insertado; encajes               | 1.11%                         | 71666   | 69518   | 2148    | 97.00%     |
| 59 Tejidos impregnados, recubiertos, revestidos o estratificados..                  | 0.43%                         | 28086   | 23323   | 4763    | 83.04%     |
| 60 Tejidos de punto   | 0.68%                         | 44084   | 42070   | 2014    | 95.43%     |
| 61 Prendas y complementos de vestir, de punto                                       | 2.07%                         | 134263  | 133403  | 860     | 99.36%     |
| 62 Prendas y complementos de vestir, excepto los de punto                           | 4.42%                         | 286617  | 284617  | 2000    | 99.30%     |
| 63 Los demás artículos textiles confeccionados; conjuntos/surtidos..                | 0.68%                         | 44379   | 35111   | 9268    | 79.12%     |
| 64 Calzado, polainas, botines y artículos análogos y sus partes                     | 0.50%                         | 32683   | 31326   | 1357    | 95.85%     |
| 65 Artículos de sombrerería y sus partes  | 0.03%                         | 1926    | 1758    | 168     | 91.28%     |
| 66 Paraguas, sombrillas, quitasoles, bastones asiento, latigos, fustas              | 0.01%                         | 615     | 463     | 152     | 75.28%     |
| 67 Plumones, plumas preparados y artículos de pluma/plumón; flores artificiales     | 0.01%                         | 446     | 115     | 331     | 25.78%     |
| 68 Manufacturas de piedra, yeso, cemento, amianto, mica o materias análogas         | 0.14%                         | 9238    | 7733    | 1505    | 83.71%     |
| 69 Productos cerámicos  | 0.42%                         | 27000   | 24392   | 2608    | 90.34%     |
| 70 Vidrio y manufacturas de vidrio  | 0.57%                         | 37192   | 26844   | 10348   | 72.18%     |
| 71 Perlas finas o cultivadas, piedras preciosas, semipreciosas y similares          | 0.39%                         | 25528   | 8938    | 16590   | 35.01%     |
| 72 Fundición, hierro y acero  | 3.70%                         | 239728  | 126973  | 112755  | 52.97%     |
| 73 Manufacturas de fundición, de hierro o de acero                                  | 2.23%                         | 144668  | 110219  | 34449   | 76.19%     |
| 74 Cobre y manufacturas de cobre  | 0.78%                         | 50643   | 48317   | 2326    | 95.41%     |
| 75 Níquel y manufacturas de níquel  | 0.02%                         | 946     | 766     | 180     | 80.97%     |
| 76 Aluminio y manufacturas de aluminio  | 0.82%                         | 53319   | 30278   | 23041   | 56.79%     |
| 77 Plomo y manufacturas de plomo  | 0.06%                         | 3601    | 77      | 3524    | 2.14%      |
| 78 Cinc y manufacturas de cinc  | 0.11%                         | 7125    | 5505    | 1620    | 77.28%     |
| 79 Estano y manufacturas de estano  | 0.01%                         | 663     | 470     | 193     | 70.89%     |
| 80 Los demás metales comunes; "cermets"; manufacturas de estas materias             | 0.01%                         | 465     | 171     | 294     | 36.77%     |
| 81 Herramientas, útiles, articul. de cuchillera, cubiertos de mesa, de met. comunes | 0.40%                         | 25652   | 17674   | 7978    | 68.90%     |
| 82 Manufacturas diversas de metales comunes   | 0.55%                         | 35343   | 32234   | 3109    | 91.20%     |
| 83 Reactores nucleares, calderas, máquinas, aparatos y artefactos mecánicos..       | 14.12%                        | 915244  | 698682  | 216562  | 76.34%     |
| 84 Máquinas, aparatos y material eléctrico, sus partes; aparatos de grabación..     | 8.43%                         | 546498  | 421314  | 125184  | 77.09%     |
| 85 Vehículos y material para vías o simil. y sus partes; aparatos mecánicos..       | 0.11%                         | 7050    | 4296    | 2754    | 60.94%     |
| 86 Vehículos automotores, tractores, ciclos, demás vehic. terrestres, sus partes..  | 7.29%                         | 472623  | 415461  | 57162   | 87.91%     |
| 87 Navegación aérea o espacial  | 1.22%                         | 78944   | 46188   | 32756   | 58.51%     |
| 88 Navegación marítima o fluvial  | 0.11%                         | 7281    | 4339    | 2942    | 59.59%     |
| 89 Instrumentos, aparatos de óptica, fotografía, cinematografía, medida, control... | 2.36%                         | 152705  | 100129  | 52576   | 65.57%     |
| 90 Relojería  | 0.12%                         | 7863    | 6174    | 1689    | 78.52%     |
| 91 Instrumentos de música; partes y accesorios de estos instrumentos                | 0.09%                         | 1292    | 512     | 780     | 39.63%     |
| 92 Armas y municiones y sus partes y accesorios                                     | 0.08%                         | 4953    | 4866    | 87      | 98.24%     |
| 93 Muebles; mobiliario médicoquirúrgico; artículos de cama y similares              | 0.41%                         | 26503   | 21639   | 4864    | 81.65%     |
| 94 Juguets, juegos, artículos para recreo o para deporte; partes...                 | 0.16%                         | 10109   | 5724    | 4385    | 56.62%     |
| 95 Manufacturas diversas  | 0.90%                         | 58481   | 51421   | 7060    | 87.93%     |
| TOTAL   |                               | 7119227 | 5282929 | 1836298 | 74.21%     |

CUADRO A1: ARCHIVO DE DATOS PARA TÚNEZ

| CATEGORÍA DEL SISTEMA ARMONIZADO  | MFN TÚNEZ | MFN DE LA UE | CAMBIO EN MFN TÚNEZ | ELASTICIDAD IMPORTACIÓN |
|---|-----------|--------------|---------------------|-------------------------|
| 25 Sal; azufre; tierras y piedras; yesos, cales y cementos                          | 0.224     | 0.004        | 0.224               | 0.2                     |
| 26 Minerales, escorias y cenizas  | 0.17      | 0            | 0.17                | 0.2                     |
| 27 Combustibles minerales, aceites minerales y prod. de su destilacion              | 0.119     | 0.009        | 0.119               | 0.2                     |
| 28 Prod. quimicos inorgan.; compuestos inorgan./organ. de los metales               | 0.193     | 0.058        | 0.193               | 0.2                     |
| 29 Productos quimicos organicos   | 0.193     | 0.059        | 0.193               | 0.2                     |
| 30 Productos farmaceuticos  | 0.206     | 0            | 0.206               | 0.5                     |
| 31 Abonos   | 0.204     | 0.046        | 0.204               | 0.2                     |
| 32 Extractos curtientes/tintoreos; taninos, sus derivados; pinturas                 | 0.234     | 0.067        | 0.234               | 0.2                     |
| 33 Aceites esenciales y resinoides; prep. de perfumeria, de tocador                 | 0.393     | 0.04         | 0.393               | 0.5                     |
| 34 Jabones, agentes de superficie organicos, preparac. para lavar, etc              | 0.297     | 0.036        | 0.297               | 0.2                     |
| 35 Materias albuminoides; prod. a base de almidon o de fecula modificados           | 0.187     | 0.061        | 0.187               | 0.2                     |
| 36 Polvoras y explosivos; articulos de pirotecnia; fosforos..                       | 0.343     | 0.067        | 0.343               | 0.2                     |
| 37 Productos fotograficos o cinematograficos  | 0.225     | 0.057        | 0.225               | 0.5                     |
| 38 Miscellaneous chemical products.   | 0.207     | 0.053        | 0.207               | 0.2                     |
| 39 Materias plasticas y manufacturas de estas materias                              | 0.242     | 0.088        | 0.242               | 0.1                     |
| 40 Caucho y manufacturas de caucho  | 0.262     | 0.023        | 0.262               | 0.1                     |
| 41 Pieles (excepto la peleteria) y cueros   | 0.266     | 0.02         | 0.256               | 0.1                     |
| 42 Manuf. de cuero; articul. de guarnicioneria, talabarteria, viaje....             | 0.399     | 0.05         | 0.399               | 0.5                     |
| 43 Peleteria, confecciones de peleteria; peleteria artificial/facticia              | 0.43      | 0.013        | 0.43                | 0.5                     |
| 44 Madera, carbon vegetal y manufacturas de madera                                  | 0.314     | 0.034        | 0.314               | 0.1                     |
| 45 Corcho y sus manufacturas  | 0.356     | 0.037        | 0.356               | 0.1                     |
| 46 Manufacturas de esparteria o de cesteria   | 0.403     | 0.038        | 0.403               | 0.1                     |
| 47 Pasta de madera o de otras materias fibrosas celulosicas; papel..                | 0.17      | 0            | 0.17                | 0.1                     |
| 48 Papel, carton; manufact. de pasta de celulosa, de papel/de carton                | 0.398     | 0.064        | 0.398               | 0.1                     |
| 49 Productos editoriales, de la prensa/de otras industrias graficas                 | 0.212     | 0.019        | 0.212               | 0.94                    |
| 50 Seda   | 0.273     | 0.032        | 0.273               | 0.66                    |
| 51 Lana y pelo fino u ordinario; hilados y tejidos de crin                          | 0.27      | 0.051        | 0.27                | 0.66                    |
| 52 Algodon  | 0.373     | 0.077        | 0.373               | 0.66                    |
| 53 Las demas fibras textiles vegetales; hilados y tejidos de papel                  | 0.244     | 0.028        | 0.244               | 0.66                    |
| 54 Filamentos sinteticos o artificiales   | 0.309     | 0.087        | 0.309               | 0.66                    |
| 55 Fibras sinteticas o artificiales discontinuas                                    | 0.355     | 0.089        | 0.355               | 0.66                    |
| 56 Guata, fieltro, telas sin tejer; hilados especiales; cordales, etc..             | 0.34      | 0.075        | 0.34                | 0.66                    |
| 57 Alfombras y demas revestimientos para el suelo, de mater. textiles               | 0.43      | 0.085        | 0.43                | 0.66                    |
| 58 Tejidos especiales; superfic. textiles con pelo insertado; encajes               | 0.404     | 0.095        | 0.404               | 0.66                    |
| 59 Tejidos impregnados, recubiertos, revestidos o estratificados..                  | 0.28      | 0.067        | 0.28                | 0.66                    |
| 60 Tejidos de punto   | 0.43      | 0.107        | 0.43                | 0.66                    |
| 61 Prendas y complementos de vestir, de punto                                       | 0.427     | 0.127        | 0.427               | 0.66                    |
| 62 Prendas y complementos de vestir, excepto los de punto                           | 0.428     | 0.124        | 0.428               | 0.66                    |
| 63 Los demas articulos textiles confeccionados; conjuntos/surtidos..                | 0.422     | 0.109        | 0.422               | 0.66                    |
| 64 Calzado, polainas, botines y articulos analogos y sus partes                     | 0.418     | 0.118        | 0.418               | 0.66                    |
| 65 Articulos de sombrereria y sus partes  | 0.377     | 0.034        | 0.377               | 0.66                    |
| 66 Paraguas, sombrillas, quitasoles, bastones asiento, latigos, fustas              | 0.353     | 0.053        | 0.353               | 0.66                    |
| 67 Plumones, plumon preparados y articulos de pluma/plumon; flores artificiales     | 0.43      | 0.04         | 0.43                | 0.66                    |
| 68 Manufacturas de piedra, yeso, cemento, amianto, mica o materias analogas         | 0.316     | 0.023        | 0.316               | 0.75                    |
| 69 Productos ceramicos  | 0.343     | 0.055        | 0.343               | 0.1                     |
| 70 Vidrio y manufacturas de vidrio  | 0.292     | 0.055        | 0.292               | 0.1                     |
| 71 Perlas finas o cultivadas, piedras preciosas, semipreciosas y similares          | 0.368     | 0.011        | 0.368               | 0.5                     |
| 72 Fundicion, hierro y acero  | 0.204     | 0.016        | 0.204               | 0.75                    |
| 73 Manufacturas de fundicion, de hierro o de acero                                  | 0.286     | 0.042        | 0.286               | 0.75                    |
| 74 Cobre y manufacturas de cobre  | 0.247     | 0.038        | 0.247               | 0.75                    |
| 75 Niquel y manufacturas de niquel  | 0.188     | 0.017        | 0.188               | 0.75                    |
| 76 Aluminio y manufacturas de aluminio  | 0.277     | 0.07         | 0.277               | 0.75                    |
| 78 Plomo y manufacturas de plomo  | 0.281     | 0.04         | 0.281               | 0.75                    |
| 79 Cinc y manufacturas de cinc  | 0.219     | 0.044        | 0.219               | 0.75                    |
| 80 Estano y manufacturas de estano  | 0.224     | 0.01         | 0.224               | 0.75                    |
| 81 Los demas metales comunes; "cermets"; manufacturas de estas materias             | 0.176     | 0.043        | 0.176               | 0.75                    |
| 82 Herramientas, utiles, articul. de cuchillera, cubiertos de mesa, de met. comunes | 0.343     | 0.042        | 0.343               | 0.75                    |
| 83 Manufacturas diversas de metales comunes   | 0.374     | 0.031        | 0.374               | 0.75                    |
| 84 Reactores nucleares, calderas, maquinas, aparatos y artefactos mecanicos..       | 0.246     | 0.028        | 0.246               | 0.85                    |
| 85 Maquinas, aparatos y material electrico, sus partes; aparatos de grabacion..     | 0.298     | 0.043        | 0.298               | 1.15                    |
| 86 Vehiculos y material para vias o simil. y sus partes; aparatos mecanicos..       | 0.203     | 0.028        | 0.203               | 1.3                     |
| 87 Vehiculos automoviles, tractores, ciclos, demas vehic. terrestres, sus partes..  | 0.326     | 0.068        | 0.326               | 1.3                     |
| 88 Navegacion aerea o espacial  | 0.182     | 0.03         | 0.182               | 1.3                     |
| 89 Navegacion maritima o fluvial  | 0.21      | 0.014        | 0.21                | 1.3                     |
| 90 Instrumentos, aparatos de optica, fotografia, cinematografia, medida, control... | 0.227     | 0.038        | 0.227               | 0.94                    |
| 91 Relojeria  | 0.346     | 0.068        | 0.346               | 0.94                    |
| 92 Instrumentos de musica; partes y accesorios de estos instrumentos                | 0.367     | 0.041        | 0.367               | 0.75                    |
| 93 Armas y municiones y sus partes y accesorios                                     | 0.222     | 0.035        | 0.222               | 0.1                     |
| 94 Muebles; mobiliario medicoquirurgico; articulos de cama y similares              | 0.415     | 0.034        | 0.415               | 0.66                    |
| 95 Juguets, juegos, articulos para recreo o para deporte; partes...                 | 0.327     | 0.046        | 0.327               | 0.94                    |
| 96 Manufacturas diversas  | 0.381     | 0.045        | 0.381               | 0.66                    |
| TOTAL   |           |              |                     |                         |

CUADRO A1: ARCHIVO DE DATOS PARA TÚNEZ

| CATEGORÍA DEL SISTEMA ARMONIZADO  | VALOR DE LA<br>CREACIÓN DE<br>COMERCIO | VALOR DE LA<br>DESVIACIÓN DE<br>COMERCIO<br>( Verdoorn ) | EFFECTO<br>TOTAL | GANANCIA POR<br>CREACIÓN DE<br>COMERCIO |
|---|--|--|------------------|---|
| 25 Sal; azufre; tierras y piedras; yesos, cales y cementos                          | 1643                                   | 521.63   | 2164             | 558.83                                  |
| 26 Minerales, escorias y cenizas  | 37                                     | 18.27  | 56               | 6.53                                    |
| 27 Combustibles minerales, aceites minerales y prod. de su destilación              | 6395                                   | 2469.33  | 8865             | 817.42                                  |
| 28 Prod. químicos inorgan.; compuestos inorgan. / organ. de los metales             | 1054                                   | 333.93   | 1388             | 156.95                                  |
| 29 Productos químicos orgánicos   | 2203                                   | 1775.43  | 3978             | 127.14                                  |
| 30 Productos farmacéuticos  | 10987                                  | 9810.11  | 20797            | 1267.33                                 |
| 31 Abonos   | 157                                    | 97.16  | 254              | 15.43                                   |
| 32 Extractos curtientes / tintóreos; taninos, sus derivados; pinturas               | 1677                                   | 1388.75  | 3066             | 120.70                                  |
| 33 Aceites esenciales y resinoides; prep. de perfumería, de tocador                 | 2868                                   | 2603.06  | 5471             | 500.99                                  |
| 34 Jabones, agentes de superficie orgánicos, preparac. para lavar, etc              | 659                                    | 566.27   | 1225             | 87.98                                   |
| 35 Materias albuminoides; prod. a base de almidón o de fécula modificados           | 345                                    | 303.76   | 649              | 16.63                                   |
| 36 Polvos y explosivos; artículos de pirotecnia; fosforos..                         | 82                                     | 51.49  | 133              | 14.33                                   |
| 37 Productos fotográficos o cinematográficos  | 1429                                   | 1113.09  | 2542             | 115.09                                  |
| 38 Miscellaneous chemical products.   | 1828                                   | 1594.28  | 3423             | 120.11                                  |
| 39 Materias plásticas y manufacturas de estas materias                              | 4092                                   | 3032.75  | 7125             | 270.52                                  |
| 40 Caucho y manufacturas de caucho  | 1129                                   | 751.89   | 1881             | 184.73                                  |
| 41 Pieles (excepto la peletería) y cueros   | 1965                                   | 1815.94  | 3781             | 241.96                                  |
| 42 Manuf. de cuero; artícul. de guarnicionería, talabartería, viaje....             | 1064                                   | 956.95   | 2021             | 180.50                                  |
| 43 Peletería, confecciones de peletería; peletería artificial / facticia            | 262                                    | 256.02   | 518              | 54.11                                   |
| 44 Madera, carbon vegetal y manufacturas de madera                                  | 1940                                   | 1225.08  | 3165             | 383.58                                  |
| 45 Corcho y sus manufacturas  | 2                                      | 0.25   | 2                | 1.59                                    |
| 46 Manufacturas de espartería o de cestería   | 8                                      | 4.73   | 13               | 2.37                                    |
| 47 Pasta de madera o de otras materias fibrosas celulósicas; papel..                | 129                                    | 23.63  | 152              | 59.62                                   |
| 48 Papel, cartón; manufact. de pasta de celulosa, de papel / de cartón              | 2794                                   | 2029.81  | 4813             | 535.02                                  |
| 49 Productos editoriales, de la prensa / de otras industrias gráficas               | 3507                                   | 2769.73  | 6275             | 390.17                                  |
| 50 Seda   | 141                                    | 39.69  | 181              | 53.37                                   |
| 51 Lana y pelo fino u ordinario; hilados y tejidos de crin                          | 6001                                   | 5839.48  | 11841            | 547.78                                  |
| 52 Algodón  | 104739                                 | 93139.85   | 197879           | 13833.33                                |
| 53 Las demás fibras textiles vegetales; hilados y tejidos de papel                  | 1052                                   | 977.00   | 2029             | 108.23                                  |
| 54 Filamentos sintéticos o artificiales   | 17648                                  | 15198.53   | 32847            | 1634.27                                 |
| 55 Fibras sintéticas o artificiales discontinuas                                    | 56245                                  | 51916.48   | 108162           | 6072.61                                 |
| 56 Guata, fieltro, telas sin tejer; hilados especiales; cordeles, etc..             | 6686                                   | 6267.88  | 12954            | 736.53                                  |
| 57 Alfombras y demás revestimientos para el suelo, de mater. textiles               | 133                                    | 102.17   | 235              | 23.95                                   |
| 58 Tejidos especiales; superfic. textiles con pelo insertado; encajes               | 13207                                  | 12806.77   | 26009            | 1608.34                                 |
| 59 Tejidos impregnados, recubiertos, revestidos o estratificados..                  | 3267                                   | 2796.22  | 6163             | 328.51                                  |
| 60 Tejidos de punto   | 8349                                   | 7967.84  | 16317            | 1061.36                                 |
| 61 Prendas y complementos de vestir, de punto                                       | 26346                                  | 26177.17   | 52523            | 2794.40                                 |
| 62 Prendas y complementos de vestir, excepto los de punto                           | 56302                                  | 55908.68   | 112210           | 6121.18                                 |
| 63 Los demás artículos textiles confeccionados; conjuntos / surtidos..              | 6877                                   | 5440.84  | 12318            | 1008.98                                 |
| 64 Calzado, polainas, botines y artículos análogos y sus partes                     | 6095                                   | 5841.60  | 11936            | 684.55                                  |
| 65 Artículos de sombrerería y sus partes  | 318                                    | 289.96   | 608              | 54.30                                   |
| 66 Paraguas, sombrillas, quitasoles, bastones asiento, látigos, fustas              | 80                                     | 60.02  | 140              | 13.50                                   |
| 67 Plumaz, plumon preparados y artículos de pluma / plumon; flores artificiales     | 23                                     | 5.88   | 29               | 15.65                                   |
| 68 Manufacturas de piedra, yeso, cemento, amianto, mica o materias análogas         | 1393                                   | 1165.76  | 2558             | 225.99                                  |
| 69 Productos cerámicos  | 623                                    | 562.79   | 1186             | 83.38                                   |
| 70 Vidrio y manufacturas de vidrio  | 607                                    | 437.89   | 1045             | 80.85                                   |
| 71 Perlas finas o cultivadas, piedras preciosas, semipreciosas y similares          | 1202                                   | 420.92   | 1623             | 594.58                                  |
| 72 Fundición, hierro y acero  | 16135                                  | 8546.12  | 24681            | 2639.00                                 |
| 73 Manufacturas de fundición, de hierro o de acero                                  | 18384                                  | 14006.41   | 32391            | 2511.55                                 |
| 74 Cobre y manufacturas de cobre  | 7178                                   | 6848.13  | 14026            | 665.24                                  |
| 75 Níquel y manufacturas de níquel  | 91                                     | 73.62  | 165              | 8.73                                    |
| 76 Aluminio y manufacturas de aluminio  | 4926                                   | 2797.19  | 7723             | 670.91                                  |
| 78 Plomo y manufacturas de plomo  | 13                                     | 0.27   | 13               | 61.23                                   |
| 79 Cinc y manufacturas de cinc  | 742                                    | 573.10   | 1315             | 67.13                                   |
| 80 Estano y manufacturas de estano  | 65                                     | 45.73  | 110              | 9.30                                    |
| 81 Los demás metales comunes; "cermet"; manufacturas de estas materias              | 19                                     | 7.06   | 26               | 2.62                                    |
| 82 Herramientas, útiles, artícul. de cuchillera, cubiertos de mesa, de met. comunes | 3385                                   | 2332.53  | 5718             | 648.95                                  |
| 83 Manufacturas diversas de metales comunes   | 6581                                   | 6001.66  | 12582            | 1134.84                                 |
| 84 Reactores nucleares, calderas, máquinas, aparatos y artefactos mecánicos..       | 117251                                 | 89507.25   | 206758           | 14836.13                                |
| 85 Máquinas, aparatos y material eléctrico, sus partes; aparatos de grabación..     | 111236                                 | 85755.62   | 196992           | 15742.08                                |
| 86 Vehículos y material para vías o simil. y sus partes; aparatos mecánicos..       | 942                                    | 574.27   | 1517             | 116.66                                  |
| 87 Vehículos automotores, tractores, ciclos, demás vehic. terrestres, sus partes..  | 132785                                 | 116724.79  | 249509           | 15421.41                                |
| 88 Navegación aérea o espacial  | 9245                                   | 5409.24  | 14655            | 1003.00                                 |
| 89 Navegación marítima o fluvial  | 979                                    | 583.40   | 1562             | 150.26                                  |
| 90 Instrumentos, aparatos de óptica, fotografía, cinematografía, medida, control... | 17413                                  | 11417.62   | 28830            | 2089.44                                 |
| 1 Relojería   | 1492                                   | 1171.40  | 2663             | 212.19                                  |
| 2 Instrumentos de música; partes y accesorios de estos instrumentos                 | 103                                    | 40.85  | 144              | 37.67                                   |
| 3 Armas y municiones y sus partes y accesorios                                      | 88                                     | 86.85  | 173              | 7.09                                    |
| 4 Muebles; mobiliario médicoquirúrgico; artículos de cama y similares               | 4189                                   | 3419.91  | 7609             | 897.23                                  |
| 5 Juegos, juguetes, artículos para recreo o para deporte; partes...                 | 1326                                   | 750.75   | 2077             | 282.71                                  |
| 6 Manufacturas diversas   | 9363                                   | 8232.68  | 17596            | 1577.66                                 |
| TOTAL   | 829603                                 | 693782.23  | 1523385          | 104708.30                               |

CUADRO A1: ARCHIVO DE DATOS PARA TÚNEZ

| CATEGORÍA DEL SISTEMA ARMONIZADO   | COSTE DE LA DESVIACIÓN DE COMERCIO | CAMBIO NETO EN EL BIENESTAR | COSTE MÁXIMO DE LA DESVIACIÓN DE COMERCIO |
|--|------------------------------------|-----------------------------|---|
| 25 Sal; azufre; tierras y piedras; yesos, cales y cementos                     | 565.30                             | -6.47                       | 31656.80                                  |
| 26 Minerales, escorias y cenizas   | 0.00                               | 6.53                        | 449.31                                    |
| 27 Combustibles minerales, aceites minerales y prod.de su destilacion          | 7171.08                            | -6353.66                    | 92427.29                                  |
| 28 Prod.quimicos inorgan.;compuestos inorgan./organ.de los metales             | 5958.86                            | -5801.91                    | 19828.63                                  |
| 29 Productos quimicos organicos  | 4983.79                            | -4856.65                    | 16302.90                                  |
| 30 Productos farmaceuticos   | 0.00                               | 1267.33                     | 29677.60                                  |
| 31 Abonos  | 342.29                             | -326.86                     | 1517.96                                   |
| 32 Extractos curtientes/tintoreos;taninos,sus derivados;pinturas               | 3578.14                            | -3457.44                    | 12496.77                                  |
| 33 Aceites esenciales y resinoides;prep.de perfumeria,de tocador               | 896.08                             | -395.09                     | 8803.99                                   |
| 34 Jabones,agentes de superficie organicos,preparac.para lavar,et:             | 603.07                             | -515.09                     | 4975.34                                   |
| 35 Materias albuminoides;prod.a base de amidon o de fecula modificados         | 758.54                             | -741.90                     | 2325.35                                   |
| 36 Polvoras y explosivos; articulos de pirotecnia; fosforos..                  | 169.31                             | -154.98                     | 866.76                                    |
| 37 Productos fotograficos o cinematograficos                                   | 1138.92                            | -1023.83                    | 4495.73                                   |
| 38 Miscellaneous chemical products.  | 3239.84                            | -3119.73                    | 12653.70                                  |
| 39 Materias plasticas y manufacturas de estas materias                         | 24934.36                           | -24663.84                   | 68569.49                                  |
| 40 Caucho y manufacturas de caucho   | 1877.38                            | -1692.65                    | 21385.75                                  |
| 41 Pieles (excepto la peleteria) y cueros                                      | 2024.70                            | -1782.74                    | 26928.51                                  |
| 42 Manuf.de cuero;articul.de guarnicioneria,talabarteria,viaje....             | 414.65                             | -234.15                     | 3308.91                                   |
| 43 Peleteria,confecciones de peleteria;peleteria artificial/facticia           | 23.14                              | 30.97                       | 765.40                                    |
| 44 Madera, carbon vegetal y manufacturas de madera                             | 4371.62                            | -3988.04                    | 40373.18                                  |
| 45 Corcho y sus manufacturas   | 15.73                              | -14.13                      | 151.30                                    |
| 46 Manufacturas de esparteria o de cesteria                                    | 19.00                              | -16.63                      | 201.50                                    |
| 47 Pasta de madera o de otras materias fibrosas celulosicas;papel..            | 0.00                               | 59.52                       | 8206.41                                   |
| 48 Papel,carton;manufact. de pasta de celulosa,de papel/de carton              | 8582.02                            | -8047.06                    | 53369.81                                  |
| 49 Productos editoriales,de la prensa/de otras industrias graficas             | 513.21                             | -123.04                     | 5726.33                                   |
| 50 Seda  | 113.44                             | -60.07                      | 967.79                                    |
| 51 Lana y pelo fino u ordinario; hilados y tejidos de crin                     | 2241.71                            | -1693.92                    | 11867.85                                  |
| 52 Algodon   | 50581.38                           | -36748.05                   | 245024.07                                 |
| 53 Las demas fibras textiles vegetales;hilados y tejidos de papel              | 244.86                             | -136.63                     | 2133.78                                   |
| 54 Filamentos sinteticos o artificiales  | 11443.63                           | -9809.36                    | 40644.62                                  |
| 55 Fibras sinteticas o artificiales discontinuas                               | 31363.69                           | -25291.08                   | 125102.36                                 |
| 56 Guata,fleetro,telas sin tejer;hilados especiales;cordeles,etc..             | 3194.10                            | -2457.57                    | 14479.92                                  |
| 57 Alfombras y demas revestimientos para el suelo,de mater.textiles            | 74.12                              | -50.17                      | 374.96                                    |
| 58 Tejidos especiales;superfic.textiles con pelo insertado;encajes             | 6808.27                            | -5139.93                    | 28953.06                                  |
| 59 Tejidos impregnados, recubiertos, revestidos o estratificados..             | 1881.75                            | -1553.25                    | 7864.08                                   |
| 60 Tejidos de punto  | 1716.99                            | -3655.63                    | 18956.12                                  |
| 61 Prendas y complementos de vestir, de punto                                  | 17051.40                           | -14257.00                   | 57330.30                                  |
| 62 Prendas y complementos de vestir, excepto los de punto                      | 35540.51                           | -29419.33                   | 122872.08                                 |
| 63 Los demas articulos textiles confeccionados;conjuntos/surtidos..            | 4837.31                            | -3828.34                    | 18727.94                                  |
| 64 Calzado,polainas,botines y articulos analogos y sus partes                  | 3856.59                            | -3172.05                    | 13661.49                                  |
| 65 Articulos de sombrereria y sus partes                                       | 65.48                              | -11.18                      | 726.10                                    |
| 66 Paraguas,sombrillas,quitasoias,bastones asiento,latigos,fustas              | 32.60                              | -19.10                      | 217.10                                    |
| 67 Plumas,plumon preparados y articulos de pluma/plumon;flores artificiales    | 17.84                              | -2.19                       | 191.78                                    |
| 68 Manufacturas de piedra,yeso,cemento,amianto,mica o materias analogas        | 212.47                             | 13.52                       | 2919.21                                   |
| 69 Productos ceramicos   | 1485.00                            | -1401.62                    | 9261.00                                   |
| 70 Vidrio y manufacturas de vidrio   | 2045.56                            | -1964.71                    | 10860.06                                  |
| 71 Perlas finas o cultivadas, piedras preciosas, semipreciosas y similares     | 280.00                             | 313.77                      | 9394.30                                   |
| 72 Fundicion, hierro y acero   | 3835.65                            | -1195.65                    | 48904.51                                  |
| 73 Manufacturas de fundicion, de hierro o de acero                             | 6076.06                            | -3564.50                    | 41375.05                                  |
| 74 Cobre y manufacturas de cobre   | 1924.43                            | -1259.20                    | 12508.82                                  |
| 75 Niquel y manufacturas de niquel   | 16.08                              | -7.35                       | 177.85                                    |
| 78 Aluminio y manufacturas de aluminio   | 3732.33                            | -3081.42                    | 14789.36                                  |
| 78 Plomo y manufacturas de plomo   | 144.04                             | -82.81                      | 1011.88                                   |
| 79 Cinc y manufacturas de cinc   | 313.50                             | -246.37                     | 1560.38                                   |
| 80 Estano y manufacturas de estano   | 6.63                               | 2.67                        | 148.51                                    |
| 81 Los demas metales comunes;"cermets"; manufacturas de estas materias         | 20.00                              | -17.37                      | 81.84                                     |
| 82 Herramientas,utiles,articul.de cuchillera,cubiertos de mesa,de met.comunes  | 1077.38                            | -428.44                     | 8798.84                                   |
| 83 Manufacturas diversas de metales comunes                                    | 1095.63                            | 39.21                       | 13218.28                                  |
| 84 Reactores nucleares,calderas,maquinas,aparatos y artefactos mecanicos..     | 25626.83                           | -10790.70                   | 225150.02                                 |
| 85 Maquinas, aparatos y material electrico,sus partes;aparatos de grabacion..  | 23499.41                           | -7757.33                    | 162856.40                                 |
| 86 Vehiculos y material para vias o simil. y sus partes;aparatos mecanicos..   | 197.40                             | -80.74                      | 1431.15                                   |
| 87 Vehiculos automoviles,tractores,ciclos,demas vehic.terrestres,sus partes..  | 32138.36                           | -16716.95                   | 154075.10                                 |
| 88 Navegacion aerea o espacial   | 2368.32                            | -1365.32                    | 14367.81                                  |
| 89 Navegacion maritima o fluvial   | 101.93                             | 48.32                       | 1529.01                                   |
| 90 Instrumentos,aparatos de optica,fotografia,cinematografia,medida,control... | 5802.79                            | -3713.35                    | 34664.04                                  |
| 91 Relojeria   | 534.68                             | -322.49                     | 2720.60                                   |
| 92 Instrumentos de musica;partes y accesorios de estos instrumentos            | 52.97                              | -15.31                      | 474.16                                    |
| 93 Armas y municiones y sus partes y accesorios                                | 173.36                             | -166.27                     | 1099.57                                   |
| 94 Muebles;mobiliario medicoquirurgico;articulos de cama y similares           | 901.10                             | -3.87                       | 10998.75                                  |
| 95 Juguetes,juegos,articulos para recreo o para deporte;partes...              | 465.01                             | -182.30                     | 3305.64                                   |



CUADRO A1: ARCHIVO DE DATOS PARA TÚNEZ

| CATEGORÍA DEL SISTEMA ARMONIZADO |  | IMPORTACIONES<br>DE MARRUECOS | VALOR DE LA<br>CREACIÓN DE<br>COMERCIO<br>UE + MARRUECOS | VALOR DE LA<br>CREACIÓN DE<br>COMERCIO<br>MARRUECOS |
|----------------------------------|--|-------------------------------|--|---|
| 25                               | Sal; azufre; tierras y piedras; yesos, cales y cementos                          | 1668                          | 1703.68  | 81  |
| 26                               | Minerales, escorias y cenizas  | 578                           | 54.25  | 17  |
| 27                               | Combustibles minerales, aceites minerales y prod. de su destilación              | 31665                         | 7053.74  | 658   |
| 28                               | Prod. químicos inorgán.; compuestos inorgán./organ. de los metales               | 26                            | 1054.43  | -1  |
| 29                               | Productos químicos orgánicos   | 0                             | 2202.82  | 0   |
| 30                               | Productos farmacéuticos  | 956                           | 11068.23   | 82  |
| 31                               | Abonos   | 0                             | 156.52   | 0   |
| 32                               | Extractos curtientes/tintóreos; taninos, sus derivados; pinturas                 | 0                             | 1677.14  | 0   |
| 33                               | Aceites esenciales y resinoides; prep. de perfumería, de tocador                 | 0                             | 2868.08  | 0   |
| 34                               | Jabones, agentes de superficie orgánicos, preparac. para lavar, etc              | 134                           | 665.26   | 6   |
| 35                               | Materias albuminoides; prod. a base de almidón o de fécula modificados           | 0                             | 344.98   | 0   |
| 36                               | Pólvoras y explosivos; artículos de pirotecnia; fosforos..                       | 0                             | 81.52  | 0   |
| 37                               | Productos fotográficos o cinematográficos  | 0                             | 1429.16  | 0   |
| 38                               | Miscellaneous chemical products.   | 60                            | 1830.38  | 2   |
| 39                               | Materias plásticas y manufacturas de estas materias                              | 96                            | 4093.76  | 2   |
| 40                               | Caucho y manufacturas de caucho  | 993                           | 1149.40  | 21  |
| 41                               | Pieles (excepto la peletería) y cueros   | 710                           | 1980.27  | 15  |
| 42                               | Manuf. de cuero; articul. de guarnicionería, talabartería, viajes....            | 0                             | 1063.81  | 0   |
| 43                               | Peletería, confecciones de peletería; peletería artificial/facticia              | 0                             | 261.76   | 0   |
| 44                               | Madera, carbon vegetal y manufacturas de madera                                  | 310                           | 1947.54  | 7   |
| 45                               | Corcho y sus manufacturas  | 0                             | 1.68   | 0   |
| 46                               | Manufacturas de espartería o de cestería   | 0                             | 8.24   | 0   |
| 47                               | Pasta de madera o de otras materias fibrosas celulósicas; papel..                | 13395                         | 323.38   | 195   |
| 48                               | Papel, cartón; manufact. de pasta de celulosa, de papel/de cartón                | 0                             | 2783.69  | 0   |
| 49                               | Productos editoriales, de la prensa/de otras industrias gráficas                 | 43                            | 3513.71  | 7   |
| 50                               | Seda   | 0                             | 141.12   | 0   |
| 51                               | Lana y pelo fino u ordinario; hilados y tejidos de crin                          | 67                            | 6010.67  | 9   |
| 52                               | Algodón  | 10                            | 104740.89  | 2   |
| 53                               | Las demás fibras textiles vegetales; hilados y tejidos de papel                  | 0                             | 1051.68  | 0   |
| 54                               | Filamentos sintéticos o artificiales   | 174                           | 17675.48   | 27  |
| 55                               | Fibras sintéticas o artificiales discontinuas                                    | 51                            | 56254.31   | 9   |
| 56                               | Guata, felpo, telas sin tejer; hilados especiales; cordeles, etc..               | 343                           | 6743.39  | 57  |
| 57                               | Alfombras y demás revestimientos para el suelo, de mator. textiles               | 0                             | 132.97   | 0   |
| 58                               | Tejidos especiales; superfic. textiles con pelo insertado; encajes               | 53                            | 13212.54   | 10  |
| 59                               | Tejidos impregnados, recubiertos, revestidos o estratificados..                  | 0                             | 3367.26  | 0   |
| 60                               | Tejidos de punto   | 0                             | 8349.28  | 0   |
| 61                               | Prendas y complementos de vestir, de punto                                       | 0                             | 26345.92   | 0   |
| 62                               | Prendas y complementos de vestir, excepto los de punto                           | 0                             | 56301.55   | 0   |
| 63                               | Los demás artículos textiles confeccionados; conjuntos/surtidos..                | 6                             | 6878.19  | 1   |
| 64                               | Calzado, polainas, botines y artículos análogos y sus partes                     | 0                             | 6094.65  | 0   |
| 65                               | Artículos de sombrerería y sus partes  | 0                             | 317.67   | 0   |
| 66                               | Paraguas, sombrillas, quitasoles, bastones asiento, látigos, fustas              | 0                             | 79.73  | 0   |
| 67                               | Plumas, plumón preparados y artículos de pluma/plumón; flores artificiales       | 0                             | 22.82  | 0   |
| 68                               | Manufacturas de piedra, yeso, cemento, amianto, mica o materias análogas         | 227                           | 1433.53  | 41  |
| 69                               | Productos cerámicos  | 89                            | 625.24   | 2   |
| 70                               | Vidrio y manufacturas de vidrio  | 129                           | 609.61   | 3   |
| 71                               | Perlas finas o cultivadas, piedras preciosas, semipreciosas y similares          | 100                           | 1215.64  | 13  |
| 72                               | Fundición, hierro y acero  | 338                           | 16178.23   | 43  |
| 73                               | Manufacturas de fundición, de hierro o de acero                                  | 767                           | 18512.05   | 128   |
| 74                               | Cobre y manufacturas de cobre  | 0                             | 7177.81  | 0   |
| 75                               | Níquel y manufacturas de níquel  | 0                             | 90.91  | 0   |
| 76                               | Aluminio y manufacturas de aluminio  | 122                           | 4945.65  | 20  |
| 77                               | Plomo y manufacturas de plomo  | 2890                          | 488.13   | 475   |
| 78                               | Cinc y manufacturas de cinc  | 0                             | 741.75   | 0   |
| 79                               | Estano y manufacturas de estano  | 0                             | 64.51  | 0   |
| 80                               | Los demás metales comunes; "cermeta"; manufacturas de estas materias             | 0                             | 19.19  | 0   |
| 81                               | Herramientas, útiles, articul. de cuchillera, cubiertos de mesa, de mat. comunes | 0                             | 3385.43  | 0   |
| 82                               | Manufacturas diversas de metales comunes   | 0                             | 6580.52  | 0   |
| 83                               | Reactores nucleares, calderas, máquinas, aparatos y artefactos mecánicos..       | 1713                          | 117538.20  | 287   |
| 84                               | Máquinas, aparatos y material eléctrico, sus partes; aparatos de grabación..     | 680                           | 111415.52  | 180   |
| 85                               | Vehículos y material para vías o simil. y sus partes; aparatos mecánicos..       | 0                             | 942.41   | 0   |
| 86                               | Vehículos automotores, tractores, ciclos, demás vehic. terrestres, sus partes..  | 1137                          | 133146.39  | 362   |
| 87                               | Navegación aérea o espacial  | 0                             | 9245.42  | 0   |
| 88                               | Navegación marítima o fluvial  | 0                             | 978.96   | 0   |
| 89                               | Instrumentos, aparatos de óptica, fotografía, cinematografía, medida, control... | 0                             | 17412.82   | 0   |
| 90                               | Relojería  | 0                             | 1491.85  | 0   |
| 91                               | Instrumentos de música; partes y accesorios de estos instrumentos                | 0                             | 103.09   | 0   |
| 92                               | Armas y municiones y sus partes y accesorios                                     | 0                             | 88.40  | 0   |
| 93                               | Muebles; mobiliario médicoquirúrgico; artículos de cama y similares              | 9                             | 4190.38  | 2   |
| 94                               | Juguetes, juegos, artículos para recreo o para deporte; partes...                | 0                             | 1325.88  | 0   |
| 95                               | Manufacturas diversas  | 0                             | 9363.02  | 0   |
| 96                               |  |                               |  |   |
| TOTAL                            |  | 59534                         | 832348.08  | 2745  |

J A1: ARCHIVO DE DATOS PARA TÚNEZ

| CATEGORÍA DEL SISTEMA ARMONIZADO   | VALOR DE LA DESVIACIÓN DE COMERCIO UE + MARRUECOS | VALOR DE LA DESVIACIÓN DE COMERCIO MARRUECOS | VALOR DE LA EXPANSIÓN DE COMERCIO MARRUECOS |
|--|---|--|---|
| al; azufre; tierras y piedras; yesos, cales y cementos                           | 561.13  | 39.50  | 100.55                                      |
| lminerales, escorias y cenizas   | 38.33   | 20.06  | 38.85                                       |
| ombustibles minerales; aceites minerales y prod.de su destilacion                | 3003.81   | 534.48                                       | 1192.75                                     |
| rod. quimicos inorgan.; compuestos inorgan./organ. de los metales                | 334.47  | 0.53   | 1.37  |
| roductos quimicos organicos  | 1775.43   | 0.00   | 0.00  |
| roductos farmaceuticos   | 9956.46   | 146.35                                       | 228.00                                      |
| bonos  | 97.16   | 0.00   | 0.00  |
| xtractos curtientes/tintoreos; taninos, sus derivados; pinturas                  | 1388.75   | 0.00   | 0.00  |
| ceites esenciales y resinoides; prep. de perfumeria, de tocador                  | 2603.06   | 0.00   | 0.00  |
| abones, agentes de superficie organicos, preparac. para lavar, etc               | 576.86  | 10.59  | 16.73                                       |
| laterias albuminoidas; prod. a base de almidon o de fecula modificados           | 303.76  | 0.00   | 0.00  |
| olvoras y explosivos; articulos de pirotecnia; fosforos..                        | 51.49   | 0.00   | 0.00  |
| roductos fotograficos o cinematograficos   | 1113.09   | 0.00   | 0.00  |
| liscellaneous chemical products.   | 1597.87   | 3.59   | 5.65  |
| laterias plasticas y manufacturas de estas materias                              | 3035.53   | 2.77   | 4.64  |
| caucho y manufacturas de caucho  | 779.60  | 27.71  | 48.33                                       |
| leles (excepto la peleteria) y cueros  | 1843.62   | 27.67  | 42.59                                       |
| lanuf. de cuero; articul. de guarnicioneria, talabarteria, viaje....             | 956.95  | 0.00   | 0.00  |
| eleteria, confecciones de peleteria; peleteria artificial/facticia               | 256.02  | 0.00   | 0.00  |
| ladera, carbon vegetal y manufacturas de madera                                  | 1234.46   | 9.37   | 16.78                                       |
| lorcho y sus manufacturas  | 0.25  | 0.00   | 0.00  |
| lanufacturas de esparteria o de cesteria   | 4.73  | 0.00   | 0.00  |
| lasta de madera o de otras materias fibrosas celulosicas; papel..                | 149.09  | 125.46                                       | 320.09                                      |
| apel, carton; manufact. de pasta de celulosa, de papel/de carton                 | 2029.81   | 0.00   | 0.00  |
| roductos editoriales, de la prensa/de otras industrias graficas                  | 2779.90   | 11.18  | 18.25                                       |
| teda   | 39.69   | 0.00   | 0.00  |
| ana y pelo fino u ordinario; hilados y tejidos de crin                           | 5857.79   | 18.31  | 27.71                                       |
| ligodon  | 93143.04  | 3.19   | 4.98  |
| as demas fibras textiles vegetales; hilados y tejidos de papel                   | 977.00  | 0.00   | 0.00  |
| lamentos sinteticos o artificiales   | 15245.26  | 46.73  | 73.84                                       |
| lbras sinteticas o artificiales discontinuas                                     | 51932.76  | 16.28  | 25.10                                       |
| uata, fletro, telas sin tejer; hilados especiales; cordeles, etc..               | 6376.04   | 108.16                                       | 165.60                                      |
| lfombras y demas revestimientos para el suelo, de mater. textiles                | 102.17  | 0.00   | 0.00  |
| tejidos especiales; superfic. textiles con pelo insertado; encajes               | 12826.30  | 19.54  | 29.60                                       |
| tejidos impregnados, recubiertos, revestidos o estratificados..                  | 2796.22   | 0.00   | 0.00  |
| tejidos de punto   | 7967.84   | 0.00   | 0.00  |
| trendas y complementos de vestir, de punto                                       | 26177.17  | 0.00   | 0.00  |
| trendas y complementos de vestir, excepto los de punto                           | 55908.68  | 0.00   | 0.00  |
| os demas articulos textiles confeccionados; conjuntos/surtidos..                 | 5442.70   | 1.86   | 3.03  |
| Calzado, polainas, botines y articulos analogos y sus partes                     | 5841.60   | 0.00   | 0.00  |
| Articulos de sombrereria y sus partes  | 289.96  | 0.00   | 0.00  |
| Paraguas, sombrillas, quitasoles, bastones asiento, latigos, fustas              | 60.02   | 0.00   | 0.00  |
| Plumas, plumon preparados y articulos de pluma/plumon; flores artificiales       | 5.88  | 0.00   | 0.00  |
| Manufacturas de piedra, yeso, cemento, amianto, mica o materias analogas         | 1235.21   | 69.45  | 110.33                                      |
| roductos ceramicos   | 566.91  | 4.11   | 6.39  |
| ldrio y manufacturas de vidrio   | 442.11  | 4.22   | 7.13  |
| erlas floas o cultivadas, piedras preciosas, semipreciosas y similares           | 430.39  | 9.47   | 22.92                                       |
| Fundicion, hierro y acero  | 8591.68   | 45.56  | 88.51                                       |
| Manufacturas de fundicion, de hierro o de acero                                  | 14202.02  | 195.62                                       | 323.55                                      |
| Cobre y manufacturas de cobre  | 6848.13   | 0.00   | 0.00  |
| Niquel y manufacturas de niquel  | 73.62   | 0.00   | 0.00  |
| Aluminio y manufacturas de aluminio  | 2819.78   | 22.59  | 42.43                                       |
| Plomo y manufacturas de plomo  | 402.19  | 401.92                                       | 877.38                                      |
| Cinc y manufacturas de cinc  | 573.10  | 0.00   | 0.00  |
| Estano y manufacturas de estano  | 45.73   | 0.00   | 0.00  |
| Los demas metales comunes: "cermets"; manufacturas de estas materias             | 7.06  | 0.00   | 0.00  |
| Herramientas, utiles, articul. de cuchillera, cubiertos de mesa, de mat. comunes | 2332.53   | 0.00   | 0.00  |
| Manufacturas diversas de metales comunes   | 6001.66   | 0.00   | 0.00  |
| Reactores nucleares, calderas, maquinas, aparatos y artefactos mecanicos..       | 89946.69  | 439.44                                       | 728.91                                      |
| Maquinas, aparatos y material electrico, sus partes; aparatos de grabacion..     | 86032.67  | 277.04                                       | 458.58                                      |
| Vehiculos y material para vias o simil. y sus partes; aparatos mecanicos..       | 574.27  | 0.00   | 0.00  |
| Vehiculos automoviles, tractores, ciclos, demas vehic. terrestres, sus partes..  | 117361.73   | 636.94                                       | 998.74                                      |
| Navegacion aerea o espacial  | 5409.24   | 0.00   | 0.00  |
| Navegacion maritima o fluvial  | 583.40  | 0.00   | 0.00  |
| Instrumentos, aparatos de optica, fotografia, cinematografia, medida, control... | 11417.62  | 0.00   | 0.00  |
| Relojeria  | 1171.40   | 0.00   | 0.00  |
| Instrumentos de musica; partes y accesorios de estos instrumentos                | 40.85   | 0.00   | 0.00  |
| Armas y municiones y sus partes y accesorios                                     | 86.85   | 0.00   | 0.00  |
| Muebles; mobiliario medicoquirurgico; articulos de cama y similares              | 3422.76   | 2.85   | 4.59  |
| Juguetes, juegos, articulos para recreo o para deporte; partes...                | 750.75  | 0.00   | 0.00  |
| Manufacturas diversas  | 8232.68   | 0.00   | 0.00  |
|  | 697064.76   | 3282.53                                      | 6027.91                                     |

## ADRO A1: ARCHIVO DE DATOS PARA TÚNEZ

| CATEGORÍA DEL SISTEMA ARMONIZADO   | IMPORTACIONES<br>DE EGIPTO | VALOR DE LA<br>CREACIÓN DE<br>COMERCIO<br>UE + EGIPTO | VALOR DE LA<br>CREACIÓN DE<br>COMERCIO<br>EGIPTO |
|--|----------------------------|---|--|
| Sal; azufre; tierras y piedras; yesos, calas y cementos                          | 117                        | 1646.91   | 4  |
| Minerales, escorias y cenizas  | 136                        | 41.41   | 4  |
| Combustibles minerales, aceites minerales y prod. de su destilación              | 11359                      | 6631.60   | 236  |
| Prod. químicos inorgan.; compuestos inorgan./organ. de los metales               | 262                        | 1062.07   | 8  |
| Productos químicos orgánicos   | 0                          | 2202.82   | 0  |
| Productos farmacéuticos  | 0                          | 10986.58  | 0  |
| Abonos   | 0                          | 156.52  | 0  |
| Extractos curtientes/tintóreos; taninos, sus derivados; pinturas                 | 0                          | 1677.14   | 0  |
| Aceites esenciales y resinoides; prep. de perfumería, de tocador                 | 0                          | 2868.08   | 0  |
| Jabones, agentes de superficie orgánicos, preparac. para lavar, etc              | 13                         | 659.72  | 1  |
| Materias albuminoides; prod. a base de almidón o de fecula modificados           | 0                          | 344.98  | 0  |
| Polvoras y explosivos; artículos de pirotecnia; fosforos..                       | 0                          | 81.52   | 0  |
| Productos fotográficos o cinematográficos  | 0                          | 1429.16   | 0  |
| Miscellaneous chemical products.   | 0                          | 1828.32   | 0  |
| Materias plásticas y manufacturas de estas materias                              | 612                        | 4103.81   | 12   |
| Caucho y manufacturas de caucho  | 0                          | 1128.78   | 0  |
| Pieles (excepto la peletería) y cueros   | 13                         | 1965.63   | 0  |
| Manuf. de cuero; articul. de guarnicionería, talabartería, viaje....             | 0                          | 1063.81   | 0  |
| Peletería, confecciones de peletería; peletería artificial/facticia              | 0                          | 261.76  | 0  |
| Madera, carbon vegetal y manufacturas de madera                                  | 65                         | 1941.69   | 2  |
| Corcho y sus manufacturas  | 0                          | 1.68  | 0  |
| Manufacturas de espartería o de cestería   | 0                          | 8.24  | 0  |
| Pasta de madera o de otras materias fibrosas celulósicas; papel..                | 0                          | 128.75  | 0  |
| Papel, cartón; manufact. de pasta de celulosa, de papel/de cartón                | 291                        | 2791.98   | 8  |
| Productos editoriales, de la prensa/de otras industrias gráficas                 | 916                        | 3657.25   | 151  |
| Seda   | 0                          | 141.12  | 0  |
| Lana y pelo fino u ordinario; hilados y tejidos de crin                          | 11                         | 6002.81   | 2  |
| Algodón  | 2548                       | 105195.96   | 457  |
| Las demás fibras textiles vegetales; hilados y tejidos de papel                  | 0                          | 1051.68   | 0  |
| Filamentos sintéticos o artificiales   | 23                         | 17651.95  | 4  |
| Fibras sintéticas o artificiales discontinuas                                    | 444                        | 56322.26  | 77   |
| Guata, fieltro, telas sin tejer; hilados especiales; cordeles, etc..             | 0                          | 6685.95   | 0  |
| Alfombras y demás revestimientos para el suelo, de mater. textiles               | 0                          | 132.97  | 0  |
| Tejidos especiales; superfic. textiles con pelo insertado; encajes               | 0                          | 13202.48  | 0  |
| Tejidos impregnados, recubiertos, revestidos o estratificados..                  | 0                          | 3367.26   | 0  |
| Tejidos de punto   | 0                          | 8349.28   | 0  |
| Prendas y complementos de vestir, de punto                                       | 0                          | 26345.92  | 0  |
| Prendas y complementos de vestir, excepto los de punto                           | 0                          | 56301.55  | 0  |
| Los demás artículos textiles confeccionados; conjuntos/surtidos..                | 0                          | 8877.02   | 0  |
| Calzado, polainas, botines y artículos análogos y sus partes                     | 0                          | 6094.85   | 0  |
| Artículos de sombrerería y sus partes  | 0                          | 317.87  | 0  |
| Paraguas, sombrillas, quitasoles, bastones asiento, látigos, fustas              | 0                          | 79.73   | 0  |
| Plumas, plumón preparados y artículos de pluma/plumón; flores artificiales       | 0                          | 22.82   | 0  |
| Manufacturas de piedra, yeso, cemento, amianto, mica o materias análogas         | 0                          | 1392.65   | 0  |
| Productos cerámicos  | 19                         | 623.45  | 0  |
| Vidrio y manufacturas de vidrio  | 247                        | 612.27  | 6  |
| Perlas finas o cultivadas, piedras preciosas, semipreciosas y similares          | 0                          | 1202.19   | 0  |
| Fundición, hierro y acero  | 1177                       | 16284.84  | 150  |
| Manufacturas de fundición, de hierro o de acero                                  | 0                          | 18384.12  | 0  |
| Cobre y manufacturas de cobre  | 0                          | 7177.81   | 0  |
| Níquel y manufacturas de níquel  | 0                          | 90.91   | 0  |
| Aluminio y manufacturas de aluminio  | 9120                       | 6409.50   | 1484   |
| Plomo y manufacturas de plomo  | 0                          | 12.67   | 0  |
| Cinc y manufacturas de cinc  | 0                          | 741.75  | 0  |
| Estano y manufacturas de estano  | 0                          | 64.51   | 0  |
| Los demás metales comunes; "cermets"; manufacturas de estas materias             | 0                          | 19.19   | 0  |
| Herramientas, útiles, articul. de cuchillera, cubiertos de mesa, de met. comunes | 253                        | 3433.89   | 48   |
| Manufacturas diversas de metales comunes   | 24                         | 8585.42   | 5  |
| Reactores nucleares, calderas, máquinas, aparatos y artefactos mecánicos..       | 186                        | 117281.94   | 31   |
| Máquinas, aparatos y material eléctrico, sus partes; aparatos de grabación..     | 25                         | 111242.58   | 7  |
| Vehículos y material para vías o simil. y sus partes; aparatos mecánicos..       | 0                          | 942.41  | 0  |
| Vehículos automoviles, tractores, ciclos, demás vehic. terrestres, sus partes..  | 0                          | 132784.59   | 0  |
| Navegación aérea o espacial  | 0                          | 9245.42   | 0  |
| Navegación marítima o fluvial  | 0                          | 978.96  | 0  |
| Instrumentos, aparatos de óptica, fotografía, cinematografía, medida, control... | 51                         | 17421.69  | 9  |
| Relojería  | 0                          | 1491.85   | 0  |
| Instrumentos de música; partes y accesorios de estos instrumentos                | 0                          | 103.09  | 0  |
| Armas y municiones y sus partes y accesorios                                     | 0                          | 88.40   | 0  |
| Muebles; mobiliario médicoquirúrgico; artículos de cama y similares              | 68                         | 4201.80   | 13   |
| Juguetes, juegos, artículos para recreo o para deporte; partes...                | 0                          | 1325.88   | 0  |
| Manufacturas diversas  | 0                          | 9363.02   | 0  |

CUADRO A1: ARCHIVO DE DATOS PARA TÚNEZ

| CATEGORÍA DEL SISTEMA ARMONIZADO  | VALOR DE LA DESVIACIÓN DE COMERCIO UE+ EGIPTO | VALOR DE LA DESVIACIÓN DE COMERCIO EGIPTO | VALOR DE LA EXPANSIÓN DE COMERCIO EGIPTO |
|---|---|---|--|
| 25 Sal; azufre; tierras y piedras; yesos, cales y cementos                          | 524.36  | 2.72                                      | 7  |
| 26 Minerales, escorias y cenizas  | 22.33   | 4.06                                      | 8  |
| 27 Combustibles minerales, aceites minerales y prod. de su destilación              | 2655.04                                       | 185.71                                    | 422                                      |
| 28 Prod. químicos inorgan.; compuestos inorgan./organ. de los metales               | 339.33  | 5.40                                      | 14                                       |
| 29 Productos químicos orgánicos   | 1775.43                                       | 0.00                                      | 0  |
| 30 Productos farmacéuticos  | 9810.11                                       | 0.00                                      | 0  |
| 31 Abonos   | 97.16   | 0.00                                      | 0  |
| 32 Extractos curtientes/tintóreos; taninos, sus derivados; pinturas                 | 1388.75                                       | 0.00                                      | 0  |
| 33 Aceites esenciales y resinoides; prep. de perfumería, de tocador                 | 2603.06                                       | 0.00                                      | 0  |
| 34 Jabones, agentes de superficie orgánicos, preparac. para lavar, etc              | 567.29  | 1.02                                      | 2  |
| 35 Materias albuminoides; prod. a base de almidón o de fécula modificados           | 303.76  | 0.00                                      | 0  |
| 36 Polvos y explosivos; artículos de pirotecnia; fosforos..                         | 51.49   | 0.00                                      | 0  |
| 37 Productos fotográficos o cinematográficos  | 1113.09                                       | 0.00                                      | 0  |
| 38 Miscellaneous chemical products.   | 1594.28                                       | 0.00                                      | 0  |
| 39 Materias plásticas y manufacturas de estas materias                              | 3050.46                                       | 17.70                                     | 30                                       |
| 40 Caucho y manufacturas de caucho  | 751.89  | 0.00                                      | 0  |
| 41 Pieles (excepto la peletería) y cueros   | 1816.45                                       | 0.50                                      | 1  |
| 42 Manuf. de cuero: articul. de guarnicionería, talabartería, viaje....             | 956.95  | 0.00                                      | 0  |
| 43 Peletería, confecciones de peletería; peletería artificial/facticia              | 256.02  | 0.00                                      | 0  |
| 44 Madera, carbon vegetal y manufacturas de madera                                  | 1227.05                                       | 1.96                                      | 4  |
| 45 Corcho y sus manufacturas  | 0.25  | 0.00                                      | 0  |
| 46 Manufacturas de espartería o de cestería   | 4.73  | 0.00                                      | 0  |
| 47 Pasta de madera o de otras materias fibrosas celulósicas; papel..                | 23.63   | 0.00                                      | 0  |
| 48 Papel, cartón; manufact. de pasta de celulosa, de papel/de cartón                | 2041.91                                       | 12.10                                     | 20                                       |
| 49 Productos editoriales, de la prensa/de otras industrias gráficas                 | 3011.67                                       | 242.94                                    | 394                                      |
| 50 Seda   | 39.69   | 0.00                                      | 0  |
| 51 Lana y pelo fino u ordinario; hilados y tejidos de crin                          | 5842.48                                       | 3.00                                      | 5  |
| 52 Algodón  | 93954.15                                      | 814.30                                    | 1271                                     |
| 53 Las demás fibras textiles vegetales; hilados y tejidos de papel                  | 977.00  | 0.00                                      | 0  |
| 54 Filamentos sintéticos o artificiales   | 15204.70                                      | 6.17                                      | 10                                       |
| 55 Fibras sintéticas o artificiales discontinuas                                    | 52058.31                                      | 141.83                                    | 219                                      |
| 56 Guata, fieltro, telas sin tejer; hilados especiales; cordeles, etc..             | 6267.88                                       | 0.00                                      | 0  |
| 57 Alfombras y demás revestimientos para el suelo, de mater. textiles               | 102.17  | 0.00                                      | 0  |
| 58 Tejidos especiales; superfic. textiles con pelo insertado; encajes               | 12806.77                                      | 0.00                                      | 0  |
| 59 Tejidos impregnados, recubiertos, revestidos o estratificados..                  | 2796.22                                       | 0.00                                      | 0  |
| 60 Tejidos de punto   | 7967.84                                       | 0.00                                      | 0  |
| 61 Prendas y complementos de vestir, de punto                                       | 26177.17                                      | 0.00                                      | 0  |
| 62 Prendas y complementos de vestir, excepto los de punto                           | 55908.68                                      | 0.00                                      | 0  |
| 63 Los demás artículos textiles confeccionados; conjuntos/surtidos...               | 5440.84                                       | 0.00                                      | 0  |
| 64 Calzado, polainas, botines y artículos análogos y sus partes                     | 5841.60                                       | 0.00                                      | 0  |
| 65 Artículos de sombrerería y sus partes  | 289.96  | 0.00                                      | 0  |
| 66 Paraguas, sombrillas, quitasoles, bastones asiento, látigos, fustas              | 60.02   | 0.00                                      | 0  |
| 67 Plumás, plumón preparados y artículos de pluma/plumón; flores artificiales       | 5.88  | 0.00                                      | 0  |
| 68 Manufacturas de piedra, yeso, cemento, amianto, mica o materias análogas         | 1165.76                                       | 0.00                                      | 0  |
| 69 Productos cerámicos  | 563.67  | 0.88                                      | 1  |
| 70 Vidrio y manufacturas de vidrio  | 445.99  | 8.10                                      | 14                                       |
| 71 Perlas finas o cultivadas, piedras preciosas, semipreciosas y similares          | 420.92  | 0.00                                      | 0  |
| 72 Fundición, hierro y acero  | 8705.29                                       | 159.17                                    | 309                                      |
| 73 Manufacturas de fundición, de hierro o de acero                                  | 14006.41                                      | 0.00                                      | 0  |
| 74 Cobre y manufacturas de cobre  | 6848.13                                       | 0.00                                      | 0  |
| 75 Níquel y manufacturas de níquel  | 73.62   | 0.00                                      | 0  |
| 76 Aluminio y manufacturas de aluminio  | 4736.05                                       | 1938.86                                   | 3423                                     |
| 78 Plomo y manufacturas de plomo  | 0.27  | 0.00                                      | 0  |
| 79 Cinc y manufacturas de cinc  | 573.10  | 0.00                                      | 0  |
| 80 Estano y manufacturas de estano  | 45.73   | 0.00                                      | 0  |
| 81 Los demás metales comunes; "cermets"; manufacturas de estas materias             | 7.06  | 0.00                                      | 0  |
| 82 Herramientas, útiles, articul. de cuchillera, cubiertos de mesa, de met. comunes | 2399.79                                       | 67.26                                     | 118                                      |
| 83 Manufacturas diversas de metales comunes   | 6010.60                                       | 8.94                                      | 14                                       |
| 84 Reactores nucleares, calderas, máquinas, aparatos y artefactos mecánicos..       | 89554.91                                      | 47.66                                     | 79                                       |
| 85 Máquinas, aparatos y material eléctrico, sus partes; aparatos de grabación..     | 85765.80                                      | 10.18                                     | 17                                       |
| 86 Vehículos y material para vías o simil. y sus partes; aparatos mecánicos..       | 574.27  | 0.00                                      | 0  |
| 87 Vehículos automóviles, tractores, ciclos, demás vehic. terrestres, sus partes..  | 116724.79                                     | 0.00                                      | 0  |
| 88 Navegación aérea o espacial  | 5409.24                                       | 0.00                                      | 0  |
| 89 Navegación marítima o fluvial  | 583.40  | 0.00                                      | 0  |
| 90 Instrumentos, aparatos de óptica, fotografía, cinematografía, medida, control... | 11429.26                                      | 11.63                                     | 21                                       |
| 91 Relojería  | 1171.40                                       | 0.00                                      | 0  |
| 92 Instrumentos de música; partes y accesorios de estos instrumentos                | 40.85   | 0.00                                      | 0  |
| 93 Armas y municiones y sus partes y accesorios                                     | 86.85   | 0.00                                      | 0  |
| 94 Muebles; mobiliario médicoquirúrgico; artículos de cama y similares              | 3441.44                                       | 21.53                                     | 35                                       |
| 95 Juguetes, juegos, artículos para recreo o para deporte; partes...                | 750.75  | 0.00                                      | 0  |
| 96 Manufacturas diversas  | 8232.68                                       | 0.00                                      | 0  |
|   | 697495.86                                     | 3713.64                                   | 6431                                     |