POLICY RESEARCH WORKING PAPER

Trade Reform and Household Welfare

The Case of Mexico

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The World Bank Development Research Group Trade August 2001 Results from a two-step simulation that uses a computable general equilibrium model and detailed consumption and income household data suggest that trade liberalization benefits people in the poorest deciles more than those in the richer ones.

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Summary findings

Ianchovichina, Nicita, and Soloaga use a two-step, computationally simple procedure to analyze the effects of Mexico's potential unilateral tariff liberalization. First, they use a computable general equilibrium model provided by the Global Trade Analysis Project (GTAP) as the new price generator. Second, they apply the price changes to Mexican household data to assess the effects of the simulated policy on poverty and income distribution.

By choosing GTAP as the price generator, the authors are able to model Mexico's differential tariff structure

appropriately: almost zero for North American Free Trade Agreement (NAFTA) members and higher tariffs for nonmembers. Even starting with low tariff protection, simulation results show that tariff reform will have a positive effect on welfare for all expenditure deciles. Under an assumption of nonhomothetic individual preferences, trade liberalization benefits people in the poorer deciles more than those in the richer ones.

This paper—a product of Trade, Development Research Group—is part of a larger effort in the group to study the effects of trade policy on poverty. Copies of the paper are available free from the World Bank, 1818 H Street NW, Washington, DC 20433. Please contact Lili Tabada, room MC3-333, telephone 202-473-6896, fax 202-522-1159, email address ltabada@worldbank.org. Policy Research Working Papers are also posted on the Web at http://econ.worldbank.org. The authors may be contacted at eianchovichina@worldbank.org, anicita@worldbank.org, or isoloaga@worldbank.org. August 2001. (49 pages)

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Trade Reform and Household Welfare: The Case of Mexico

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1. Introduction¹

The analysis of the distributional impact of trade reforms plays an important role in the assessment of who is paying the welfare costs of adjustment, what are the instruments that could be used to eventually alleviate these burdens, and at what aggregate economic costs. The analysis is difficult because trade reforms have macroeconomic linkages, while the effects on income and poverty are inherently microeconomic issues. Researchers have tackled the analysis in many different ways.

Some have used aggregate indicators such as the levels of wages and employment, or the value added in different sectors, in order to assess the effects of different trade regimes on the distribution of income (Beyer et al., 1999; Harrison and Hansen, 1999; Pissarides, 1997).

As these indicators fail to capture the mix of effects on specific households and these households' responses to prices, other researchers have tried more elaborate models that account for the interrelationship between labor markets (rural and urban) and prices of staple agricultural goods. For instance, Ravallion (1989) used a partial equilibrium model to examine the rural welfare distributional effects of changes in food prices under induced wage responses for rural Bangladesh. Levy and van Wijnbergen (1992) also followed this partial equilibrium approach when analyzing income effects on different economic groups after changing production and consumption subsidies on agricultural goods.

Computable general equilibrium (CGE) models offer a more comprehensive way of modeling the overall impact of policy changes on the economy. These models incorporate many important economic linkages and are well-suited to explain mediumto long-term trends and structural responses to changes in development policy. An effort to adapt CGE models to the analysis of different adjustment programs and to estimate the costs of other strategies was made in the late 80's by the Organization for Economic Cooperation and Development (OECD), through the work of Bourguignon, Branson and

¹ Specific figures and calculations of poverty and inequality measures used in this paper are the authors' own and do not necessarily represent or coincide with the views of the World Bank on the matter.

de Melo (1991).² Their "macro-micro" model links the short-run impacts of macroeconomic policies that affect the distribution of income through inflation, interest rate and other asset price changes with the medium-run impacts of structural adjustment policies (i.e. incentive reforms) that affect the distribution of income through relative commodity and factor price changes.

To measure distributive impacts, these extended CGE models map factor income (land, labor and capital) to different types of households (capitalists, big farmers, small farmers, landless workers, modern workers, and workers in the informal sector). The models were applied to analyze different policy changes in several developing countries.³

Comprehensive as they are, these modified CGE models require an important amount of work and resources. However, sometimes the analysis must be carried out in a time frame or under budget restrictions that forbid the development of comprehensive models as those mentioned above, and researchers have to resort to *computationally simple* ways to evaluate the distributional impact of trade and price policy reforms. Research done at the World Bank for Panama (World Bank, 2001a) and, and by Levinsohn et al. for Indonesia, are examples of such approach.⁴ The procedure used in these cases is a straightforward combination of household surveys, which provided the structure of households' consumption at the moment of the simulation, and of simulated (World Bank studies) or actual (Levinsohn et al.) price changes. The change in the cost of living by segments of the population was then used to assess the impact on income distribution of the various simulations. These indexes, which are Laspeyres cost of living indexes by household, provide an upper bound measurement of the increase in expenditure that would be required for each group to purchase the same quantities of goods as in the base situation.

In the World Bank study of Panama, the re-distributive impact of complete trade and price liberalization for basic food items was simulated using household data from the Living Standard Measurement Study (LSMS). The study adopts a "zero elasticity of

 $^{^2}$ See Chapter 12 in Dervis, de Melo and Robinson (1982) for a brief description of CGE models that incorporate income distribution.

³ Results from the application of the so called "maquette" can be found in the special issue of World Development, 1991, Vol 19, No. 11. See also research done at IFPRI, for instance by Bautista and Thomas (1997), Minot and Goleti (1998), and Lee-Harris (1999).

⁴ See also the paper by Agénor et al. (2000).

substitution" assumption for producers and consumers of basic agricultural goods, and applies the change in price to quantities of the base period to get the net impact of the price change by household. The new prices are obtained by estimating the border prices of the staple goods in a tariff free scenario.

The World Bank paper on energy price reform in Iran (World Bank, 1998) combines an input-output table, which shows the input structure in the production of all final goods, and a consumer expenditure survey, which shows the amount of each final good purchased by consumers. The overall cost of living effect after a price change on the different household deciles is then calculated. The new prices are also computed as the border prices.

The Indonesian study done by Levinshon et al. (1998) adopts a different approach to get the new prices by using actual price changes, and then predicting how these price changes would have impacted on households' cost of living, by per-capita income decile.

The common denominator in these last three studies described is their "two-step" structure: they use first a process that generates the new prices (either simulated or actual changes), and second a household survey (HH) to assess the effects on poverty and income distribution.

This paper follows a similar approach. However, in order to get a *computationally simple* way of assessing the re-distributional impact of trade on poverty and inequality, we propose the use of a particular CGE model, the one coming from the Global Trade Analysis Project (GTAP), as the price generator. There are a number of reasons for our choice of methodology for the price generator. First, GTAP is specifically tailored to simulate trade policy changes, and is well suited to take into account the new wave of Preferential Trade Agreements (PTA), such as NAFTA and MERCOSUR. Second, the GTAP database has considerable sectoral and regional detail. It contains input-output information on 24 countries or regions (13 of them developing countries) and 50 sectors and captures differences in intermediate input intensities, as well as import intensities, by use. It is publicly available and regularly updated. Third, if not already in the data set, some countries could be proxied to those in GTAP. Fourth, there are HH surveys available for many of the developing countries already included in GTAP. In addition, we

assess the impact of trade reform not only on income, but also individual welfare assuming non-homothetic preferences.

Section 2 outlines the methodology to be used in the measurements of poverty and inequality. Section 3 provides a brief presentation of the GTAP model, the HH data available for Mexico, and the corresponding matching of categories between them. Section 4 provides an assessment of poverty and tariffs structure in Mexico. Section 5 presents and discusses the results and outlines the sensitivity of the results to various assumptions. Finally, section 6 summarizes the main conclusions.

2. Methodology

The analysis is conducted as follows: first, we compute a series of poverty measures from the existing household data; second, we measure again the poverty levels adjusting them for the price effect of the simulation; third, we adopt the price indexes to analyze the impact that the policy simulation would have on the expenditure side. Finally, we apply both the expenditure and income sides of the simulation to obtain the change in welfare.

2.1 Poverty Indicators and Poverty Lines

A credible measure of poverty is a powerful instrument for focusing the attention of governments and civil society on the living conditions of the poor. Income and consumption levels are usually the most common indicators for measuring living standards. An individual is considered poor if his or her consumption falls below some minimum considered necessary to meet basic needs. The poverty line represents the minimum income or expenditure necessary to fulfill those basic needs. The poverty line is bundled with the concepts of utility, welfare and household characteristics. Briefly, the poverty line can be written as:

$$pv = e(p, x, u_z)$$

In words, the poverty line is the cost efficient consumer's expenditure function e necessary to attain the minimum level of utility u_z compatible with a vector of prices p

and household characteristic x.

The choice of a particular poverty line is always debatable. The literature adopts various methods for its calculation.⁵ This study follows the basic needs method. Consequently, the poverty line is the minimum level of expenditure or income that allows the consumption of a pre-determined basket of food goods, scaled up to include non-food needs⁶. To quantify the minimum intake in terms of products, most of the poverty assessments on Mexico refer to two studies: the first one was conducted by the Coordinacion General del Plan Nacional de Zonas Deprimidas y Groupos Marginados (COPLAMAR) using data from the 1977 household survey; the second one, which uses a similar methodology, was developed by the Comision Economica para America Latina y el Caribe (CEPAL) using data collected from the Food and Agriculture Organization (FAO) and the United Nations (UN) in 1981.⁷ In this paper, we use the poverty line calculated by the CEPAL and we use its basket for updating the poverty line after the simulation. The poverty line is updated using the price change of the CEPAL basket from the second through fourth deciles. The CEPAL basket is different for urban and rural households. Therefore, we have different coefficients for changes in rural and urban areas.⁸ The CEPAL study reports two levels of poverty: the poverty line and the indigence line.⁹ The indigence line represents the minimum expenditure necessary to fulfill the basic food budget, and the indigents are defined as persons who reside in a household with such a low income that even if all of it were used to buy nothing but food,

⁵ For an extensive discussion on poverty line construction see: Ravallion (1998).

⁶ The minimum daily calories intake is set at 2165 (FAO/OMS/ONU, 1985)

⁷ CEPAL calculates the per capita minimum requirement while COPLAMAR calculates the basket at the household level. The average household of 4.9 members is comprised of 2.7 adults, 1.66 children (ages 3-14) and 0.47 babies.

⁸ The coefficients used in this paper are coming from CEPAL and are slightly different to the ones used by INEGI/CEPAL.

⁹ The indigence line is also referred to as the extreme poverty line. In almost all developing countries, the poverty line worked out to be twice the indigence line for urban areas, while in rural areas it was calculated as being approximately 75% higher than the indigence line.

the household would still not be able to satisfy completely the nutritional needs of its members. We will make use of this distinction in the calculation of the poverty indexes.¹⁰

To assess poverty, we consider three measures based on the Foster-Greer-Thorbecke (henceforth FGT) class of additively decomposable poverty indexes.¹¹ First, the headcount ratio (α =0) is simply the share of the population living below the poverty line. Second, the poverty gap index (α =1) captures the distance separating the poor from the poverty line as a proportion or that line (the noon poor having zero distance). The main weakness of this index is that it does not indicate the severity of poverty. The third measure (α =2) is sensitive to the problem of measuring the severity of poverty. The therefore, it is referred to as distribution-sensitive FGT. The sensitive FGT gives heavier weight to the poverty of the very poor than the poverty gap index. The drawback of this index is that it is less straightforward to interpret. It is essentially composed of two parts: an amount due to the poverty gap and an amount due to the inequality among the poor. To analyze inequality issues we compute two more indexes for the income part of the data: the Gini coefficient and the Theil index.¹²

2.2 Price Indexes

To calculate the impact of the policy simulation on the expenditure of the household, we report the results of the most commonly used indexes: the Laspeyres, the

¹¹ These indexes are widely used in the literature for their additive properties and their linkages to the stochastic dominance theory (Foster, Greer and Thornbecke, 1984). The additive properties makes the indexes particularly useful in analyzing population subgroups. The FGT class of poverty measures is

formally: $P_{\alpha} = \sum_{y_i < z} [(z - y_i)/z]^{\alpha} / n$ where y_i is the per capita consumption of the *i*th individual, *n* is the size of the population, z is the poverty line and α is a parameter. The additive property allows us to

is the size of the population, z is the poverty line and α is a parameter. The additive property allows us to decompose the measures across population sub-groups.

¹² The Gini coefficient can be written as: $gini = \frac{2 \cdot cov(Y, F(Y))}{\mu}$, where Y is the distribution of per

capita income, F(Y) is its cumulative distribution and μ is the mean of Y. Theil index can be written as:

theil = $\frac{1}{n} \sum \left[\frac{Y_i}{\mu} \cdot \ln \frac{Y_i}{\mu} \right]$, where Y_i is the income of individual *i*, μ is the average income, and *n* is the

size of the population. Note that the Theil index is additive.

¹⁰ The difference between the poverty lines of rural and urban households derives from the fact that they have different consumption baskets and face different unit prices. We set different poverty lines according to rural and urban classifications in the calculation of the FGT indexes, but we do not report separate results for urban and rural households.

Paasche, the Fisher and the Törnquist indexes.¹³ The Laspeyres index does not take into account substitutability in consumption. Therefore, it underestimates the decrease and overestimates the increase in the true price index. The Paasche index performs vice-versa: it underestimates the increase and overestimates the decrease in the true price index.¹⁴

2.3 The GTAP Household and welfare measures

2.3.1 GTAP Household

The GTAP model (Hertel, 1997) features a regional superhousehold whose behavior is governed by an aggregate Cobb-Douglas utility function specified over private household consumption, government spending and savings. Thus, in GTAP, the regional superhousehold spends a fixed share of its income on private household consumption, government spending and savings. The model computes the percentage change in per capita utility from aggregate household expenditure for a given country (or region) [u(r)] and a money metric equivalent of aggregate utility change, [EV(r)]. The utility measure, u(r), indicates changes in welfare of the average individual in region r. The equivalent variation measure, EV(r), summarizes the welfare changes resulting from a policy shock in dollar values.

¹³ The Laspeyres price index is formally defined as: $P_L = \sum_i q_i^0 p_i^1 / \sum_i q_i^0 p_i^0$. The Paasche price index is given by: $P_P = \sum_i q_i^1 p_i^1 / \sum_i q_i^1 p_i^0$. The Fisher price index is defined as:

 $P_F = \sqrt{\frac{\sum_{i} q_i^0 p_i^1 \sum_{i} q_i^1 p_i^1}{\sum_{i} q_i^0 p_i^0 \sum_{i} q_i^1 p_i^0}}, \text{ where } q \text{ stands for quantity and } p \text{ for price, } i \text{ denotes the product group and}$

the superscript represents the state. The Törnuquist price index is given

by:
$$\ln P_T = \sum_i \frac{1}{2} (sh_i^O + sh_i^I) \ln(\frac{p_i^I}{p_i^O})$$
, where sh is the budget share.

¹⁴ The Laspeyres and Paasche indexes represent the worst and the best possible scenarios, respectively.

2.3.2 Private demands

Per capita utility from private household expenditures is modeled via a nonhomothetic Constant Different of Elasticities (CDE) function, which is designed to capture differential price and income responsiveness across countries (Hanoch, 1975). Its main virtue is the ease with which it may be calibrated to existing information on income and own price elasticities of demand.

The CDE implicit expenditure function is given by:

(1)
$$\sum_{i \in TRAD} B(i,r) * UP(r)^{\beta(i,r)\gamma(i,r)} * [PP(i,r) / E(PP(r), UP(r))]^{\beta(i,r)} \equiv 1$$
,

where E(.) represents the minimum expenditure required to attain a prespecified level of private household utility, UP(r), given the vector of private household prices, PP(r) and traded goods *i*. Minimum expenditure is used to normalize individual prices, and these normalized prices are then raised to the power $\beta(i,r)$ and combined in an additive form. Under this formulation, as the minimum expenditure can not be factored out of the lefthand side expression, the CDE is an implicitly additive function. Besides capturing nonhomotheticity, a useful feature of the CDE is that it simplifies into a CES when $\beta(i,r) = \beta$ for all *i* and into a Cobb-Douglas when $\beta=0$.

2.3.3 The government and savings

GTAP uses an index of current government expenditures to proxy the welfare derived from the government's provision of public goods and services to private households in the region. This index is aggregated with private utility in order to make inferences about regional welfare.

Regarding savings, its inclusion in this static model comes from work done by Howe (1975), who showed that the intertemporal, extended linear expenditure system (ELES) could be derived from an equivalent, atemporal maximization problem, in which savings enters the utility function.

2.3.4 Changes in private income and in private utility

Changes in private utility are calculated in GTAP as:

(2)
$$up(r) = \{yp(r) - \sum_{i \in TRAD} [CONSHR(i,r) * pp(i,r)]\} / \sum_{i \in TRAD} CONSHR(i,r) * INCPAR(i,r),^{15}$$

where up(r) is the percentage change in private utility in region r, yp(r) is the percentage change in private household income in region r, CONSHR(i,r) is the share in total consumption of good i, pp(i,r) is the change in the demand price of commodity i, INCPAR(i,r) is an income expansion parameter, and i sums over the set of traded commodities TRAD consumed by the households. The INCPAR(i,r) comes from the CDE minimum expenditure function that is used to represent private household preferences in the model and is related to the income elasticity of demand for good i. If preferences are homothetic, the INCPAR(i,r) equals one for all i. If preferences are not homothetic, the INCPAR(i,r) are constrained to be strictly positive and are greater than one for superior goods.

When preferences are homothetic, (2) collapses into the difference between a Laspeyres price index for income and a Laspeyres index of expenditures:

(3)
$$up(r) = yp(r) - \sum_{i \in TRAD} [CONSHR(i, r) * pp(i, r)].^{10}$$

We use the Cobb-Douglas form of preferences to check the robustness of our simulation results.

In turn, household's income is defined as the sum of the household's endowments (agricultural land, labor, and capital) times the price of these endowments actually faced by the households:

(4)
$$INCOME = \sum_{i \in ENDOWMENT} QO(i,r) * PS(i,r)$$
.

The change in household income yp(r) is then defined as:

(5)
$$yp(r) = \sum_{i \in ENDOWMENT} \sum INCOMESHR(i,r) * ps(r).$$

2.3.5 Our Approach

The key purpose of this paper is to apply formula (2) to the household data in order to derive information on the impact of trade reform on individual welfare. Due to lack of better information, we can not consider variations in pp(i,r) coming from spatial

¹⁵ We follow GTAP's notation. Upper case letters denote levels and lower case denotes changes in percentage.

¹⁶ This is the simplest of all commonly used indicators of welfare and real income. See: Sadoulet and de Janvry (1995).

location or from a poor-rich classification of households. Thus, we assume that pp(i,r) is the same for all households.

Equation (2) takes into account the fact that poor individuals spend a larger proportion of their income on items with lower income elasticities than rich ones to determine the effect of a marginal increase in real income on individual welfare. In effect, formula (2) says that a dollar increase in real income is worth more to the poor individual than to the rich one.

3 Data

We use GTAP to simulate the effects of trade liberalization on Mexico's economy. The simulations results include price changes for products and endowments and changes in domestic demand for products. The model assumes full employment, and therefore endowment supply is fixed.

The GTAP system counts 50 expenditure groups. These groups can be further aggregated according to food, manufacturing, services and other primary products. On the income side GTAP distinguishes between five different sources of income: land, capital, natural resources, skilled and unskilled labor. A more detailed explanation of the GTAP model and a description of GTAP sectors can be found in the GTAP appendix.

This study utilizes the 1996 Mexican National Household Income and Expenditure Survey (ENIGH), which is collected by the Instituto Nacional de Estadistica, Geografia e Informatica (INEGI). The survey collects a wide range of data. The survey contains detailed expenditure data on a wide set of consumption goods at the household level and detailed information on income at the individual level. Moreover, the survey collects a large array of household characteristics and household members characteristics.

The survey is representative at the national level, and it was drawn using a stratified, multistage and clustered method. To obtain suitable estimators, we make use of the survey weights, and adopt the estimating procedures developed specifically for survey data.¹⁷ In our study, the welfare is measured at the individual level, therefore we make

¹⁷ For a review of statistical methods and issues in the analysis of survey data see Deaton (1997).

use of equivalence scales to adjust the data accordingly. The data appendix further discusses the Mexican household survey.

The matching of GTAP and the household survey represents a challenge. In this type of exercises compromises are the norm more than the exception. In this case, the extremely detailed information that household surveys incorporate and the condensed categories of GTAP require a degree of arbitrariness. On the expenditure side, the GTAP system counts 50 commodity categories while the Mexican household data has about 600 different categories. On the income side, GTAP identifies 5 different income sources, and the household data has 47 categories. In the data appendix, we describe in detail how we aggregated the household data to fit GTAP aggregations. For the most difficult cases, we had to use a certain degree of arbitrariness. Nevertheless, the final results give us a reassuring picture. On the expenditure side, the GTAP domestic consumption shares and the household expenditure shares look very similar at the aggregate level.¹⁸ Figure 1 shows the results of the aggregation. The matching of the service sectors. To solve this impasse, we decided to aggregate GTAP service sectors into a single category.¹⁹

GTAP and the household survey use different income categorizations. Therefore, the matching is not as linear as in the expenditure case. The GTAP income composition is calculated according to the national accounts and distinguishes five income categories: land, capital, natural resources, skilled and unskilled wages. The household survey differentiates income according to sources, and in many cases these can be attributed to more than one GTAP category.²⁰ Figure 2 shows the results of the income matching. Differences are large, especially in the share of capital. In GTAP, capital represents more than 60% of total income, while in the case of household data, this share is less than

¹⁸ At a more disaggregate level, the data show some discrepancies. These, however, are restricted to the manufacturing sector in most cases.

¹⁹ In this particular case, the procedure is justifiable by the fact that the price variations within the service sectors are extremely small. Because it may not always be the case, in the aggregation tables at the end of the appendix, we disaggregate across services. For a complete description of the services sector aggregation of GTAP see Huff, McDougall and Walmsley (1999).

²⁰ For example, income from cooperatives should be correctly subdivided into income from wages, capital and land.

20%.²¹ The difficulty of income matching is probably only one of the causes of this discrepancy. Other likely sources of this difference is the income mis-reporting issues that afflict household surveys.²² This problem necessitates a robustness check. To adjust for the underreporting issues, this paper follows the practice of equalizing total income to total expenditure by household. To adjust for the discrepancies between the survey and the GTAP data, we adopt a procedure with which we use the income composition coming from GTAP, while maintaining the distribution of each endowment across households from the household survey. Figure 2 shows the income shares adjusted with this procedure. The matching process ensures that the income categories in GTAP are closely aligned with the aggregate income categories of the household survey. The data aggregation appendix provides a detailed explanation of this procedure.

Table 1 reports the tariff structure for Mexico in 1997 (Estevadeordal, 1999). We updated the GTAP model with the new tariffs taking into account the different tariff structure of NAFTA. The tariff structure is quite detailed. For simplicity, tariffs for food products are set to two levels according to the averages for agriculture products and food products.

4 Poverty and Trade Policy in Mexico

Despite Mexico's status as a middle-income country and member of the OECD, poverty is widespread. Poverty issues in Mexico have been the focus of recent studies at the World Bank.²³ In accordance with the results of those studies, we briefly summarize the basic findings and give a picture of the Mexican society emerging from the 1996 household survey.

The household survey data collected in 1996 shows that poverty is widespread across both the urban and the rural areas and includes slightly less than half of the total population. Moreover, one out of seven individuals is considered indigent. Inequality is

²¹ Even if we attribute all the residual categories- negative savings, transfers and imputed rent, to the capital share, this share will not reach 50%. Also, wages are very well defined in both GTAP and the household survey, but while in GTAP they account for about 30% of income, in the household survey they account for about 50%.

²² For a more detailed discussion see: Rendtel, Langeheine and Berntsen (1998)

²³ For example, studies by the World Bank include Wodon (2000), World Bank (1996) and (1999). Other studies have been conducted by the Inter-American Development Bank (see Lustig and Szekely (1998)).

high, with the poorest 40% of the population collecting about half of the income received by the richest 10%. For the purpose of the analysis, it is useful to know the income and expenditure distribution across the various income deciles. The household survey is very detailed and consumption baskets and income composition can be precisely identified for each population stratum. As we discussed above, we have aggregated the expenditure and income categories to fit the GTAP aggregation. Although, this reduces the precision of the overall picture it makes the data much more tractable. To briefly illustrate the Mexican situation, we report here some descriptive statistics on income and expenditure patterns from the household survey. Also, we report the basic poverty and inequality indicators.

4.1 Consumption

In table 2 we report the consumption shares for the average Mexican household and for each income decile. The average Mexican household consumes, on per capita basis, about 1060 pesos per month, of which a quarter goes for food, a quarter goes for manufactures, and about half is spent on services.²⁴ As expected, the analysis by deciles shows the sharp decrease in the food consumption share as income increases and a parallel rise in the consumption of services.²⁵ The share of expenditures in manufacturing is almost constant across all deciles. At the more disaggregated level, it is possible to observe the different income elasticity across products. The food basket is quite different across deciles. According to the household survey, the poor obtain most of their calories from Cereals and Vegetables. Meanwhile, the richest rely on more expensive foods such as meat and dairy products. Table 3 displays the composition of the food basket across deciles.

Figure 3 illustrates graphically the expenditure levels across deciles. It is striking how most of the wealth is concentrated in the highest deciles. Across deciles, the level of expenditure on services and manufacturing grows much faster than the one for food.²⁶ In particular, the expenditure on services, which is almost non-existent in absolute values

²⁴ The total expenditure corresponds to about \$140US.

²⁵ The category labeled "Residual" contains expenditures which are attributable mostly to investments or transfers. Those categories cannot be matched to any GTAP category.

for the poorest households, grows quickly across the deciles to reach more than 2000 pesos per month for the wealthier deciles. Total expenditure in manufacturing products shows a similar pattern on a smaller scale.

4.2 Income

The composition of income reflected in the survey data is different from the Mexican National Accounts. As explained before, the reason can be attributed partly to the income mis-reporting issue and partly to the problematic matching of income categories due to the different classifications in GTAP and the survey. The household data show that the average Mexican household receives more than half of its income from wages; income from capital is around 20%; income from residual categories such as imputed rent, auto-consumption, transfers and negative savings represents more than 30%. Table 4 presents the income decomposition across deciles. The income composition is very similar across the entire population spectrum, with the only substantial differences being the wage composition and the composition across the residual categories. Analyzing the income composition of the poorest deciles we see that auto-consumption, mostly attributable to production of food for own use, is an important source of income representing more than 15% of income for the poorest 10% of the population. Auto-consumption rapidly declines along the income classes. Income from land represents more than 5% of total income of the poorest deciles. The poor also obtain a large part of their income through unskilled wages and transfers. Interestingly, imputed rent, the opportunity cost of the rent of the own house, is slightly more than 10% for all the classes. This percentage increases slowly across income classes, suggesting that imputed rent indicates well the level of income.

According to the classification of the household survey, wages are the primary source of income for all deciles. A significant part of the income of the poorest deciles comes from unskilled labor, while the richest obtain almost half of their income from skilled labor. The income of the richest deciles is about 4000 pesos per month,

²⁶ Note that manufacturing products and services include items which are necessary to be able to fulfill the basic needs- items or services such as basic tools and transportation.

meanwhile the income of the poorest deciles is 210 pesos per month, definitely below the indigence line.²⁷

4.3 Poverty

The poverty line was set according to the CEPAL study at 635.5 and 548.3 pesos per capita per month for the urban and for the rural population, respectively. The indigence line was set at 317.8 and 313.3 pesos per capita per month, respectively, for the urban and the rural residents.²⁸ Table 5 reports the FGT estimates along with their standard errors. In 1996, about 41% of the Mexican population lived below the poverty line, meanwhile about 13% lived below the indigence line.

4.4 Inequality

The household survey presents a situation where the poorest 20% of the population collect less than 5% of total income. Meanwhile, the richest 10% collect about 40% of total income. Table 6 reports the Theil indexes and the Gini coefficient. The Gini coefficient is 0.465, while the Theil index, which gives more weight to the upper and lower tails, is 0.431.²⁹ We will analyze the change, if any, of those indexes after the simulation.

5 Findings

We set all tariffs to zero. Thus the simulation is closer to a theoretical exercise than a policy study. Nevertheless, setting all tariffs to zero represents a good testing point for checking the outcomes of the model.

²⁷ In US dollars this is \$526 and \$28, respectively.

²⁸ In US dollars, those figures correspond to about 83 (urban) and 72 (rural) dollars a month for the poverty line and to about 41 and 40 dollars a month respectively for the indigence line.

²⁹ It is likely that those numbers are smaller than the actual ones. The fact that we use total expenditure as a proxy for total income will likely reduce the inequality indexes. Compared with other studies, for example Wodon (2000), our numbers are effectively smaller. Wodon (2000), using total income, finds that for Mexico the Gini coefficient is 0.55 and the Theil is 0.52. World Bank poverty assessment 2001 gives an esimate of the Gini coefficient of 0.4826. Nonetheless, what matters for the purpose of this paper are the changes in these levels rather than the levels themselves.

5.1 Price and Quantities

Given the relatively small rates of protection in Mexico, especially within NAFTA, we do not expect large effects resulting from the complete abatement of tariffs. Table 7 reports the price and quantity changes produced by the simulation. As expected, most of the prices show a decline, the exception being meat and services. Quantities domestically consumed move accordingly, with larger surges in sectors where prices dropped more.

The effect of the simulation on the income part results in a decrease of approximately 3 percentage points in factor returns for land and natural resources. Returns to capital and labor increase by about one to one and a half percentage points, in both cases.³⁰

Income parameters are built into GTAP and are related to the income elasticity of each product group. As expected, they are higher for manufacturing and services than for food.³¹

5.2 Income and Consumption

Table 8 reports the price indexes for consumption and income by deciles. The overall price indexes show that, as a consequence of the liberalization, the average expenditure basket slightly decreased, while average income increased by about 1%. On the income side, endowment returns to skilled labor increased more than returns to unskilled labor, and land returns declined. Therefore, rich households, which obtain a large share of income from skilled labor and capital, gain more than the poor ones, in percentage terms. On the expenditure side, the situation reverses. Because of different consumption baskets, the poorer households gain, in percentage terms, more than the richer ones. This effect is due to the overall decrease in the price of food products, which constitute a large proportion of the consumption basket of the poor. For the rich households the discount for food and manufacturing products is compensated by the rise in the price of services, making the price of their consumption basket almost unchanged.

³⁰ The similar increase of the return of those endowments is probably the cause for which the income effect on household is not much different when we check for robustness of income composition.

In the same table we also report the decomposition across sectors of the Laspayres index.³² The results are strongly driven by the consumption shares. Poor households, which consume half of total income in food products, gain mostly due to the decline in food prices.. Meanwhile, the rich households obtain most of their gain from reduction in the prices of manufacturing. Nevertheless, this gain is compensated by the loss of purchasing power in services. On the income side, as expected, the decomposition shows that poor households gain mostly from unskilled labor, and simultaneously lose from the reduced returns to land. The richer households gain mostly from the increased returns to skilled labor.

5.3 Poverty

Table 9 compares the values of the FGT and inequality indexes obtained straight from the survey with the ones obtained after the simulation. The results are in line with what emerged from the price index analysis. The poverty lines have been updated according to the new prices of the minimum expenditure baskets, paid by the household from the second through fourth decile.³³ As expected, poverty measures show a slight reduction in the incidence of poverty. The new level of the headcount index is only half a percentage point lower than the one computed based on the survey. The Gini coefficient and the Theil index show, if any, a minimal increase in inequality.

5.4 Utility

The change in utility is positive across all household centiles. Applying the GTAP output to the household survey produced an average utility increase of about 0.12%. This

³² This is possible due to the additive property of those indexes. The Laspeyres index can be decomposed

into groups according to: $\sum_{i} w_{i}^{0}(\frac{p_{i}^{1}}{p_{i}^{0}}) = \sum_{G} \frac{x_{G}^{0}}{x_{i}^{0}} \sum_{i \in G} \left[\frac{p_{i}^{0} q_{i}^{0}}{x_{G}^{0}} (\frac{p_{i}^{1}}{p_{i}^{0}}) \right], \text{ where } w \text{ is the budget share for good}$

i and x is total expenditure for group G. The effect of each group G in the change is:

$$\sum_{i} w_{i}^{\theta} \left(\frac{p_{i}^{1}}{p_{i}^{\theta}}\right) - 1 = \sum_{G} \frac{x_{G}^{\theta}}{x^{\theta}} \left[\sum_{i \in G} \left[\frac{p_{i}^{\theta} q_{i}^{\theta}}{x_{G}^{\theta}} \left(\frac{p_{i}^{1}}{p_{i}^{\theta}}\right) \right] - 1 \right]$$
Pollak (1975).

³³ Poverty lines were reduced by 0.57% and 0.62% for urban and rural households.

³¹ Future work could aim at estimating this parameter for in Mexico.

is the same value calculated with GTAP. This is indicative that the GTAP data have been matched sufficiently well with the household survey data.

As it turns out from the data, sorting the observations by expenditure is very similar to sorting the observations by food expenditure shares. Because GTAP's income parameters for necessities are smaller than the income parameters for superior goods, the denominator in equation (2) increases monotonically with the level of expenditures. This implies that similar increases in real income (Table 8) translate into larger increases in welfare for the poor individuals than the rich ones. The households that gain the most, in percentage terms, are the ones at the bottom of the income scale. Meanwhile, the richer households gain less.

6 Summary

We use a two step *computationally simple* procedure to analyze the effects of trade liberalization using household survey data for Mexico. First, we use an already available CGE model provided by the Global Trade Analysis Project (GTAP) as the price generator. Second, we apply the changes in prices to the household survey data in order to assess the effects of the policy simulation on poverty and income distribution. By choosing GTAP as the price generator, we are able to model the differential tariff structure quite appropriately (almost zero for NAFTA members and higher tariffs for non-members). Even starting with a low level of tariff protection, simulation results show that the impact of tariff reform on welfare will be positive in general for all expenditure deciles with the poor individuals benefiting proportionately more than the rich ones.

While the proposed methodology offers a simple way to estimate the first-round effects of trade reform, it has a number of limitations. First, the analysis abstracts from changes in the individual's occupational choices in response to changes in prices. These prove to be particularly important in countries where a large number of people make a choice between self-employment in rural areas and employment for wages in urban areas. Second, we assume that price changes are uniform across all income groups. Third, the results reflect price changes that are likely to occur over the medium- to long-run, and therefore could not be indicative of what would happen in the short-run. Fourth, GTAP does not account explicitly for the adjustment costs in labor markets. Therefore, the results might underestimate the increase in wages as a result of the trade reform. Fifth, the methodology employs a static CGE model and therefore ignores any dynamic considerations. Thus, our result might underestimate economic growth and the boost to prices in response to trade reform. Sixth, the version of GTAP used in this study does not have a detailed treatment of the public sector. Therefore, we do not consider alternative fiscal policies and instead let the model determine the effect of changes in taxes on income and spending. Finally, in this paper we employ the income elasticity information from GTAP and we assume that the income elasticities of the average consumer are the same across countries. Future work should aim to estimate these elasticities for Mexico and employ them in the analysis of welfare.

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Source: Own calculations based on ENIGH-survey (1996)



Source: Own calculations based on ENIGH survey (1996)

Group Name	Code	ROW	NAFTA
Beverages Tobacco	b_t	27.43	22.50
Bovine, equine, ovine meat	cmt	14.96	3.47
Fish	fsh	18.28	1.46
Cereal grains nec	gro	11.29	1.19
Dairy Products	mil	14.96	4.12
Animal products nec	oap	14.96	4.12
Crops nec	cro	11.29	1.19
Other food	ofd	14.96	4.12
Meat products nec	omt	14.96	4.12
Paddy rice	pcr	11.29	1.19
Sugar	sgr	14.96	4.12
Vegetables	v_f	14.96	4.12
Oils and Fats	vol	. 14.96	4.12
Wheat	wht	11.29	1.19
Chemical products	crp	11.28	2.16
Electronic products	ele	14.60	0.56
Metal products	fmp	16.01	3.49
Leather products	lea	14.18	3.73
Wood products	lum	17.16	1.46
Motovehicles	mvh	14.98	2.30
Machinery nec	ome	13.77	3.92
Manufactures nec	omf	13.45	1.29
Transport equipment	otn	13.00	1.28
Petroleum, coal products	p_c	8.50	2.16
Paper products	ppp	9.42	1.68
Textiles	tex	15.70	7.06
Wearing apparel	wap	19.62	9.01
Other Primary	o_p	8.50	2.16

Table 1: Mexican Tariff Structure 1997 (simple averages).

Source: INTAL 1997

Table 2:			
Consumption shares.	overall and	by income	decile.

Product group	sector	Overall	4				Inco	me Decile	s			}
			1	2	3	4	5	6	7	8	9	10
Beverages Tobacco	food	1.81%	1.59%	2.24%	2.31%	2.44%	2.38%	2.40%	2.44%	2.07%	1.94%	1.15%
Bovine, equine, oth meat	food	2.37%	1.42%	2.43%	2.43%	3.01%	3.27%	3.20%	3.55%	3.09%	2.79%	1.35%
Fish .	food	0.37%	0.50%	0.65%	0.47%	0.39%	0.47%	0.40%	0.46%	0.31%	0.42%	0.29%
Cereal nec	food	2.32%	13.40%	9.15%	6.91%	5.10%	4.06%	3.19%	2.37%	1.83%	1.16%	0.43%
Dairy Products	food	2.97%	1.90%	2.90%	3.61%	4.17%	4.08%	3.73%	4.03%	3.77%	3.35%	1.81%
Animal products nec	food	1.13%	2.86%	2.93%	2.61%	2.10%	1.98%	1.63%	1.45%	1.23%	0.88%	0.34%
Crops nec	food	0.01%	0.00%	0.00%	0.00%	0.01%	0.00%	0.01%	0.01%	0.01%	0.01%	0.02%
Other food	food	1.96%	3.30%	3.10%	2.86%	2.69%	2.46%	2.24%	2.40%	2.40%	2.07%	1.18%
Meat products nec	food	3.10%	3.83%	4.69%	4.33%	4.88%	4.65%	4.60%	4.18%	3.60%	3.15%	1.59%
Paddy rice	food	0.30%	1.14%	0.87%	0.70%	0.62%	0.50%	0.44%	0.35%	0.30%	0.20%	0.09%
Sugar	food	0.43%	2.04%	1.46%	1.16%	0.81%	0.78%	0.60%	0.44%	0.42%	0.27%	0.10%
Vegetables	food	4.62%	13.61%	10.77%	9.09%	7.99%	7.14%	6.13%	5.69%	4.76%	3.83%	2.00%
Oils and Fats	food	0.71%	2.32%	1.94%	1.81%	1.42%	1.26%	1.04%	0.88%	0.73%	0.49%	0.20%
Wheat	food	1.93%	2.55%	3.05%	3.31%	3.01%	3.02%	2.73%	2.47%	2.38%	1.90%	0.92%
Chemical products	manuf	5.89%	8.99%	8.58%	8.58%	8.33%	7.77%	7.36%	7.04%	6.60%	6.07%	3.73%
Electronic products	manuf	0.54%	0.25%	0.28%	0.25%	0.45%	0.48%	0.45%	0.41%	0.39%	0.55%	0.73%
Metal products	manuf	0.07%	0.08%	0.13%	0.11%	0.12%	0.10%	0.07%	0.06%	0.07%	0.04%	0.05%
Leather products	manuf	1.03%	0.86%	1.02%	1.35%	1.24%	1.22%	1.24%	1.06%	1.08%	1.14%	0.83%
Wood products	manuf	0.55%	0.11%	0.16%	0.24%	0.29%	0.28%	0.34%	0.50%	0.68%	0.58%	0.73%
Motovehicles	manuf	1.98%	0.01%	0.02%	0.05%	0.19%	0.15%	0.41%	0.35%	0.64%	1.29%	4.38%
Machinery nec	manuf	0.92%	0.15%	0.37%	0.33%	0.66%	0.57%	0.73%	0.75%	0.90%	1.17%	1.14%
Manufactures nec	manuf	0.10%	0.05%	0.07%	0.02%	0.05%	0.09%	0.05%	0.06%	0.06%	0.11%	0.15%
Transport equipment	manuf	0.01%	0.00%	0.00%	0.02%	0.01%	0.02%	0.03%	0.02%	0.02%	0.02%	0.01%
Petroleum, coal products	manuf	2.75%	0.24%	0.57%	0.63%	1.07%	1.38%	2.08%	2.13%	2.73%	3.66%	3.65%
Paper products	manuf	3.06%	2.25%	2.93%	3.31%	3.30%	3.41%	3.35%	3.41%	3.26%	3.36%	2.66%
Textiles	manuf	0.26%	0.14%	0.19%	0.20%	0.31%	0.26%	0.20%	0.26%	0.30%	0.27%	0.26%
Wearing apparel	manuf	3.59%	3.10%	3.10%	3.65%	3.28%	3.53%	3.73%	3.49%	3,82%	4.20%	3.39%
Other Primary	primary	0.53%	6.34%	3.32%	1.85%	1.23%	0.96%	0.46%	0.41%	0.17%	0.07%	0.03%
Services	services	51.13%	26.84%	32.88%	37.67%	40.47%	43.35%	46.64%	48.92%	51.82%	53.82%	58.20%
Residual	zresid	3.56%	0.14%	0.17%	0.12%	0.37%	0.38%	0.52%	0.43%	0.58%	1.18%	8.57%
Food		24.03%	50.46%	46.20%	41.61%	38.63%	36.03%	32.35%	30.71%	26.89%	22.47%	11.49%
Manufacturing	1	21.29%	22.57%	20.75%	20.60%	20.52%	20.24%	20.49%	19.94%	20.71%	22.53%	21.74%
Primary		0.53%	6.34%	3.32%	1,85%	1,23%	0.96%	0.46%	0.41%	0.17%	0.07%	0.03%
Services	1	51,13%	26.84%	32,88%	37.67%	40.47%	43,35%	46.64%	48,92%	51.82%	53,82%	58,20%
Residual	1	3.56%	0.14%	0.17%	0.12%	0.37%	0.38%	0.52%	0.43%	0.58%	1.18%	8.57%
Montly Expenditure	+	┼	<u>}</u>									·····
(Pesos per Month)	1	1060.4	209.7	334.8	427.8	528.0	640.3	770.3	935.0	1177.7	1643.5	3937.1
(US \$ per Month)		139.5	27.6	44.1	56.3	69.5	84.2	101.4	123.0	155.0	216.2	518.0
L	. .		L	<u> </u>	····					······································		

Product group					Inco	ome				
	ļ				Dec	iles				
	1	2	3	4	5	6	7	8	9	10
Bovine, equine, ovine meat	2.91%	5.54%	6.19%	8.33%	9.71%	10.67%	12.54%	12.45%	13.59%	13.09%
Fish	1.02%	1.47%	1.19%	1.07%	1.40%	1.34%	1.62%	1.24%	2.06%	2.81%
Cereal grains nec	27.43%	20.82%	17.58%	14.09%	12.06%	10.66%	8.38%	7.35%	5.66%	4.18%
Dairy Products	3.88%	6.60%	9.19%	11.51%	12.11%	12.46%	14.25%	15.20%	16.32%	17.50%
Animal products nec	5.86%	6.66%	6.64%	5.81%	5.87%	5.46%	5.14%	4.94%	4.30%	3.31%
Crops nec	0.00%	0.01%	0.01%	0.01%	0.01%	0.02%	0.03%	0.04%	0.04%	0.23%
Other food	6.75%	7.06%	7.28%	7.43%	7.30%	7.48%	8.49%	9.66%	10.08%	11.44%
Meat products nec	7.83%	10.68%	11.03%	13.48%	13.81%	15. 36%	14.78%	14.51%	15.33%	15.36%
Paddy rice	2.33%	1.99%	1.79%	1.71%	1.48%	1.48%	1.22%	1.21%	1.00%	0.90%
Sugar	4.17%	3.32%	2.96%	2.24%	2.32%	2.01%	1.56%	1.71%	1.32%	0.93%
Vegetables	27.85%	24.50%	23.14%	22.07%	21.20%	20.48%	20.13%	19.16%	18.64%	19.37%
Oils and Fats	4.75%	4.41%	4.59%	3.93%	3.75%	3.47%	3.10%	2.93%	2.39%	1.98%
Wheat	5.22%	6.95%	8.42%	8.32%	8.98%	9.11%	8.73%	9.60%	9.27%	8.91%

Table 3:Composition of the food basket across deciles.



Source: Own calculation based on ENIGH survey (1996)

Endowment Factor						Income de	cile:				
	Overall	1	2	3	4	5	6	7	8	9	10
Land	1.63%	5.50%	2.56%	2.11%	1.38%	1.34%	0.92%	0.62%	0.58%	0.41%	0.83%
Capital	11.74%	12.57%	13.47%	11.81%	10.31%	11.70%	11.23%	10.65%	10.71%	11.05%	13.88%
Unsk Wage	35.78%	42.05%	47.43%	47.60%	47.25%	43.18%	40,13%	36.58%	28.97%	18.65%	5.94%
Sk Wage	17.99%	1.33%	2.38%	6.37%	10.23%	12.25%	16. 59%	21.27%	26.61%	38.01%	44.89%
Negative Savings	4.38%	1.83%	2.76%	2.41%	3.11%	3.59%	3.84%	4.37%	4.58%	6.64%	10.70%
Transfers	11.04%	8.88%	10.65%	12.35%	11.32%	12. 24%	12.37%	10.70%	12.79%	10.55%	8.51%
Autoconsumo	4.21%	15.94%	8.15%	4.79%	3.69%	2.91%	1.82%	1.61%	1.53%	1.15%	0.53%
Imputed rent	13.23%	11.89%	12.59%	12.56%	12.70%	12.78%	13.10%	14 .1 9%	14.23%	13.53%	14.72%
Total	1060.4	209.681	334.842	427.773	527.975	640.281	770.316	934.957	1177.73	1643.49	3937.09

Table 4: Income distribution, overall and by income decile.

Source: Own calulation based on ENIGH survey.

Table 5: Foster-Greer-Thorbecke indexes (hh survey)

FGT index	Poverty		Indigence	
	Estimate	Standard Error	Estimate	Standard Error
Head Count	0.4123	0.0064	0.1292	0.0047
Poverty Gap	0.1422	0.0030	0.0345	0.0018
Distribution Sensitive	0.0667	0.0020	0.0139	0.0010

Source: Own calulation based on ENIGH survey.

Table:6 Inequality Measures (hh survey)

Inequality Measure	Estimate
Theil T	0.4310
Gini coefficient	0.4645

TABLE 7:

Simulation effects on	price and quantities	consumed (percen	tage point change)

CATEGORY	change in	change in	value of the
Expenditure	price	quantity	income parameter ³⁴
Wheat	-4.27	0.15	0.02
Cereal nec	-0.22	0.04	0.02
Vegetables, fruit, nuts	-0.02	0.06	0.39
Crops nec	-1.6	0.34	0.39
Animal products nec	-0.03	0.05	0.21
Fishing	-0.04	0.06	0.39
Other Primary	-0.28	0.2	1.26
Bovine cattle, sheep, horse meat prods	0.14	0.03	0.21
Meat products nec	0.09	0.03	0.21
Vegetable oils and fats	-4.57	0.9	0.39
Dairy products	-1.42	0.26	0.29
Processed rice	-0.75	0.06	0.02
Sugar	-0.07	0.06	0.39
Food products nec	, -0.65	0.17	0.39
Beverages and tobacco products	-0.46	0.2	0.78
Textiles	-0.82	0.3	0.71
Wearing apparel	-2.47	0.78	0.71
Leather products	-0.66	0.38	1.31
Wood products	0.26	-0.04	1.31
Paper products, publishing	-0.65	0.37	1.31
Petroleum, coal products	-0.2	0.17	1.31
Chemical, rubber, plastic products	-1.17	0.61	1.31
Metal products	-2.24	1.11	1.31
Motor vehicles and parts	-4.21	1.68	1.24
Transport equipment nec	-0.37	0.21	1.24
Electronic equipment	-3.21	1.28	1.03
Machinery and equipment nec	-5.43	2.15	1.03
Manufactures nec	-3.27	1.31	1.03
Services	0.97	-0.3	1.25
Income	CDE		
Land	-3.09		
UnSkilled Wages	1.45		
Skilled Wages	1.74		
Capital	1.51		
NatRes	-3.35		

³⁴ These parameters reflect the structure of the income-consumption path embedded in GTAP's demand function: higher income elasticities for superior goods.

CDE						Income D	ecile				
Consumption	Overall	1	2	3	4	5	6	7	8	9	10
Laspeyres	0.9992	0.9970	0.9973	0.9976	0.9978	0.9984	0.9987	0.9992	0.9994	0.9996	1.0001
L_food	-0.0020	-0.0031	-0.0031	-0.0032	-0.0030	-0.0027	-0.0026	-0.0024	-0.0022	-0.0017	-0.0009
L_manuf	-0.0035	-0.0023	-0.0025	-0.0027	-0.0028	-0.0029	-0.0029	-0.0029	-0.0032	-0.0038	-0.0045
L_prim	0.0000	-0.0002	-0.0001	-0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L_serv	0.0047	0.0025	0.0030	0.0035	0.0037	0.0040	0.0043	0.0046	0.0048	0.0051	0.0055
Paache	0.9991	0.9969	0.9973	0.9975	0.9978	0.9983	0.9987	0.9992	0.9994	0.9995	1.0000
Fischer	0.9991	0.9970	0.9973	0.9976	0.9978	0.9983	0.9987	0.9992	0.9994	0.9995	1.0000
Törnquist	0.9991	0.9970	0.9973	0.9976	0.9978	0.9983	0.9987	0.9992	0.9994	0.9995	1.0000
Income											
Laspeyres	1.0114	1.0081	1.0092	1.0100	1.0104	1.0107	1.0110	1.0113	1.0115	1.0120	1.0123
L_land	-0.0004	-0.0015	-0.0011	-0.0008	-0.0006	-0.0005	-0.0004	-0.0003	-0.0002	-0.0002	-0.0001
L_capital	0.0017	0.0017	0.0018	0.0017	0.0017	0.0017	0.0017	0.0016	0.0017	0.0017	0.0018
I_unsk_wages	0.0038	0.0063	0.0067	0.0069	0.0067	0.0064	0.0057	0.0053	0.0044	0.0029	0.0010
L_sk_wages	0.0048	0.0002	0.0004	0.0009	0.0014	0.0018	0.0027	0.0033	0.0043	0.0064	0.0081
L_residual	0.0014	0.0014	0.0013	0.0013	0.0013	0.0013	0.0013	0.0014	0.0013	0.0013	0.0015
LaspINC-LaspCON	0.0122	0.0111	0.0119	0.0124	0.0126	0.0124	0.0123	0.0121	0.0120	0.0125	0.0122

Table 8:Price indeces for consumption and income.

Source: Own calulation based on ENIGH survey.

Table 9:FGT indexes and inequality measures before and after the simulation.

	Poverty		Indigence	
FGT index	Estimate	Standard Error	Estimate	Standard Error
Head Count pre-simulation	0.4117	0.0064	0.129	0.0047
Head Count post-simulation	0.4058	0.0064	0.1239	0.0046
Poverty Gap pre-simulation	0.1419	0.003	0.0345	0.0018
Poverty Gap post-simulation	0.1379	0.003	0.0332	0.0018
Distribution Sensitive pre-simulation	0.0665	0.002	0.0139	0.001
Distribution Sensitive post-simulation	0.0644	0.002	0.0133	0.001
Inequality				
Gini coefficient pre-simulation	0.4642			
Gini coefficient post-simulation	0.4649			
Theil T pre-simulation	0.4302			
Theil T post-simulation	0.4316			

Figure 4. Utility changes across income percentiles



APPENDIX 1: The GTAP Model

The GTAP model (Hertel, 1997) is a standard multi-region applied general equilibrium model. It has perfectly competitive markets, constant returns to scale technology, and a supply-side that emphasizes the role of inter-sectoral factor mobility in the determination of sectoral output. Product differentiation between imports and domestic goods, and among imports by region of origin, allows for two-way trade in each product category, depending upon the ease of substitution between products from different regions.

Regional household behavior is governed by an aggregate Cobb-Douglas utility function specified over composite private consumption, composite government purchases, and savings. The motivation for including savings in the static utility function derives from Howe's work which showed that the intertemporal, extended linear expenditure system (ELES) could be derived from an equivalent, atemporal maximization problem, in which savings enters the utility function. Private household demands are derived from a constant difference elasticity (CDE) implicit expenditure function (Hanoch, 1975). The non-homothetic CDE preferences are easily transformed into CES or Cobb-Douglas preferences via an appropriate choice of parameters in the preference function.

Land, labor, and capital are fully employed, and all returns to these factors accrue to households in the region in which they are employed. Global investment is allocated across regions in order to equate expected rates of return. The sum of regional investment equals global investment, which in turn must equal the sum of regional savings.

We use the GTAP model in order to simulate the effects of trade liberalization on Mexico's economy, and specifically on different types of households in the region. The idea is to use the results from the global trade model jointly with detailed information from a household survey in Mexico in order to make inferences about the welfare impact of trade liberalization on various income groups. There are a number of reasons for our choice of methodology.

First, our goal is to propose a methodology that is easy to execute and apply in the context of any country. Typically, the welfare analysis of trade policies on domestic consumers is conducted using one-region models that have multiple households, sophisticated representation of preferences, and a detailed treatment of the domestic government sector. However, the construction of these single region economy models is often a complex task that requires modeling expertise and in many cases, country-specific data. By contrast, with the GTAP model, the implementation of trade policy shocks is a standard task that is performed with a push of a button.

Second, trade policies typically affect more than one region and the use of detailed single region models would not capture well changes in the pattern of specialization and trade flows due to a trade policy shock. In addition, if we were to study the domestic impact of trade liberalization in the rest of the world, we would need a multi-region applied general equilibrium model in order to capture endogenously the impact of the trade policy shock on the economy in question.

Third, the GTAP database has considerable sectoral and regional detail. It contains input output information on more than 45 sectors and captures differences in intermediate input intensities, as well as import intensities, by use. It is publicly available and regularly updated.

There are two features of this treatment that need to be kept in mind when interpreting the results. GTAP has only one aggregate private household. The government household preferences differ from those of the private household. The government household allocates its revenue based on a Cobb-Douglas utility function, and government spending is a constant share of income. Since the model does not keep track explicitly of government revenue, changes in tax revenue are treated as changes in regional income, and affect private household spending, government household spending, and savings. Thus, a portion of the tax revenue is always transferred to the private household and this transfer leads to changes in both private spending and savings.

The second feature of the model that might affect our results is the treatment of skilled and unskilled labor. The model assumes full employment and forces wages to adjust instead. With a change in the standard macro closure, it is possible to reverse this treatment and adjust the supply of labor while keeping wages fixed in the short run. This allows us to study the response of labor supply to the trade policy shock over the short run.

List of commodities in Version 4 of GTAP Database.

No.	Sector	Code	Description
1	Food	pdr	Paddy rice
2	Food	wht	Wheat
3	Food	gro	Cereal grains nec
4	Food	v_f	Vegetables, fruit, nuts
5	Food	osd	Oil seeds
6	Food	c_b	Sugar cane, sugar beet
7	Primary	pfb	Plant-based fibers
8	Food	ocr	Crops nec
9	Food	ctl	Bovine cattle, sheep and goats, horses
10	Food	oap	Animal products nec
11	Food	rmk	Raw milk
12	Primary	wol	Wool, silk-worm cocoons
13	Primary	for	Forestry
14	Food	fsh	Fishing
15	Primary	col	Coal
16	Primary	oil	Oil
17	Primary	gas	Gas
18	Primary	omn	Minerals nec
19	Food	cmt	Bovine cattle, sheep and goat, horse meat prods
20	Food	omt	Meat products nec
21	Food	vol	Vegetable oils and fats
22	Food	mil	Dairy products
23	Food	pcr	Processed rice
24	Food	sgr	Sugar
25	Food	ofd	Food products nec
26	Food	b_t	Beverages and tobacco products
27	Manufacturing	tex	Textiles
28	Manufacturing	wap	Wearing apparel
29	Manufacturing	lea	Leather products
30	Manufacturing	lum	Wood products
31	Manufacturing	ppp	Paper products, publishing

32	Manufacturing	рс	Petroleum, coal products
33	Manufacturing	crp	Chemical, rubber, plastic products
34	Manufacturing	nmm	Mineral products nec
35	Manufacturing	i s	Ferrous metals
36	Manufacturing	nfm	Metals nec
37	Manufacturing	fmp	Metal products
38	Manufacturing	mvh	Motor vehicles and parts
39	Manufacturing	otn	Transport equipment nec
40	Manufacturing	ele	Electronic equipment
41	Manufacturing	ome	Machinery and equipment nec
42	Manufacturing	omf	Manufactures nec
43	Services	ely	Electricity
44	Services	gdt	Gas manufacture, distribution
45	Services	wtr	Water
46	Services	cns	Construction
47	Services	t_t	Trade, transport
48	Services	osp	Financial, business, recreational services
49	Services	osg	Public admin and defence, education, health
50	Services	dwe	Dwellings

Appendix 2: Mexican Household Survey

This study utilizes the 1996 Mexican National Household Income and Expenditure Survey (ENIGH). The survey was collected by the Instituto Nacional de Estadistica, Geografia e Informatica (INEGI). The survey is stratified, multistage and clustered. The final sampling unit is the household. The survey was collected from May to October 1996 and reports data for 14,042 households, which are representative of the entire population. The survey includes income, consumption, household characteristics and individual characteristics. The income data and especially the consumption data are very disaggregated. The survey reports 43 income categories subdivided into monetary, non-monetary and financial income. The consumption data consist of more than 600 different entries, about half of which are food items. Food and manufacturing products and services are finely disaggregated. The observations for which there was no information on expenditure or income for any category were dropped.³⁵

Since household size is not the same across income levels, and because the welfare measures are concerned with the well-being of individuals, all data were converted to a per capita basis. This measure of individual welfare still doesn't have a firm theoretical and empirical basis for the construction of equivalence scales. This paper adopts the standard practice of dividing household income and expenditure by its residents, with children of age 14 or less counting as half of adults. Also, to reflect economies of scale within the household, we scaled this measure to the power of 0.9.³⁶

The measure of total household income is equal to the summation of financial, monetary and non-monetary income. Non-monetary income includes payment in kind, gifts and imputed value of rent. Each classification of income was converted on a quarterly basis and adjusted for inflation. The income expenditure survey provides no information on

³⁵ This resulted in discarding about 1% of the total number of observations.

asset ownership. Thus, it is insufficient to make direct connections between income and expenditure patterns, and between asset ownership and productive activity.³⁷ Total household consumption is calculated as the sum of monetary and non-monetary expenditures. By definition and standard practice in household survey analysis, non-monetary expenditure equals non-monetary income.³⁸ The total amount for each expenditure category is calculated on a quarterly basis in the same way as income.

In household surveys the data on income is usually underreported.³⁹ This, together with the lifecycle consumption hypotheses, drove us to adopt the standard procedure of using total expenditure as a proxy for income.⁴⁰

³⁶ For a more detailed discussion see Deaton (1997) and Wiggins, Preibish and Proctor (1999). The substance of the results did not change when total income was divided by the actual number of household members.

³⁷ The survey does not give enough information to make it possible to match income data to the economic sectors. Therefore, it is impossible to calculate household specific income effects due to price changes in particular sectors.

³⁸ That is, auto-consumption goods and services must be recorded properly in both income and expenditure.

³⁹ For example, see Lustig and Mitchell (1995).

⁴⁰ See, for example, Levy (1991) and Sarris (1993).

Appendix 3: Data aggregation

The matching of the household survey classification to GTAP categories consists of two different exercises: consumption matching and income matching. On the expenditure side, the GTAP system has 50 commodity categories, while the household data includes about 600 different categories. The matching of the expenditure side of the two data sets was facilitated by the use of concordance tables provided by the GTAP website (www.gtap.org).⁴¹ This conversion solves the aggregation problem for most of the food, manufacturing and other primary sectors. The matching of the service sectors was more difficult to obtain, due to the various possible interpretations of services acquired by the households and the GTAP classification. Therefore, we decided to aggregate all the services in one category. This may seem like a bigger problem than it is. Because in our simulations the change in price is never very different across the various service categories of GTAP, this reduces errors due to aggregation.

The matching of the income part of the data with GTAP categories was more problematic. GTAP uses five different endowment categories, while in the household survey data there are more than 40. In addition, the two data sets adopt different systems in classifying income. Therefore, they are more difficult to match and require some degree of arbitrariness. GTAP income is divided into land, capital, skilled labor, unskilled labor and natural resources.⁴² The attained level of education is the variable that allow us to distinguish between skilled and unskilled labor. An individual is considered skilled if he had completed secondary school or technical education.⁴³ The household survey divides income into different categories, some of which are not univocally or clearly attributable to any single GTAP category. Many of those household income categories must be attributed to two or more GTAP categories. To calculate the correct sharing

⁴¹ In particular, we made use of the HS to GTAP conversion tables available at the GTAP website.

⁴² We do not match any household survey income category to the GTAP income category – natural resources. Even if some household income categories could be matched at least in part with income from natural resources we decided not to do so because the GTAP aggregation of natural resources is mainly mining sectors and oil which do not have a direct correspondent in the household survey categories.
⁴³ The household survey reports detailed information on the education attained by each individual. It takes

usually 9 years to complete secondary school.

coefficients, we use the input output tables of GTAP.⁴⁴ In the household data, there are various categories that cannot be matched with those of GTAP. These consist mainly of transfers and negative savings, whose average income flow we assume do not vary with the simulation.⁴⁵ We report the aggregation tables and the sharing coefficients at the end of this appendix.

Income is usually underreported in the household surveys, and total expenditures usually exceed total income. This factor, together with consumption smoothing issues prompted us to use total expenditure as a proxy for total income. Nevertheless, we still maintained the income structure of the household data. It is likely that different income categories have different degrees of underreporting. Looking at the income composition of the survey data, it is very different from the share of GTAP income categories. Because of the mis-reporting issues mentioned above, as a robustness check we relied on the GTAP endowment structure, nevertheless still maintaining the distribution of the endowments across households.⁴⁶ To do so, we first applied the income shares from GTAP to the total economy income from the household data to obtain new income levels by endowments. Then we redistributed the income generated by each endowment across the different households according to the share of participation of that particular household in that income source. Finally, to obtain total income for each household, we applied the new income composition to total expenditure.⁴⁷

⁴⁴ For example, the category "income from own business" must be allocated between income from capital and income from wage. We use the average GTAP coefficient for the service sector to calculate the correct shares.

⁴⁵ We relax this assumption for the robustness check, and let these income sources to vary with return to capital without finding appreciable changes in the results.

⁴⁶ We maintain the endowment distribution across households by assigning to each household the share of endowment from the survey data. That is, we control for the fact that the distribution of each endowment is different across the income percentiles.

⁴⁷ Formally, we set $nsh_{i,e} = \frac{sh_e^i \cdot er_e}{\sum (sh_e^i \cdot er_e)}$, where *sh* is the participation share of household *i* in the total

endowment e, er is the endowment e total return (in levels) according to GTAP shares and nsh is the new share of endowment e for the household i. Then we applied nsh to total household expenditure to obtain the household income from each endowment.

GTAP/HH SURVEY AGGREGATION TABLES

CLASSIFICATION OF EXPENDITURE

Gtap Sector	GTAP Group	GTAP	Housel	nold survey classification
		CODE	Clave	Product name
				TOS BEBIDAS Y TABACO
			A Alim	entos
			1 Cere	ales
Food	Cereal	GRO	A001	Maíz en grano, pozolero, palomero
Food	Cereal	GRO	A002	Harina de maiz
Food	Cereal	GRO	A003	Masa de maiz
Food	Cereal	GRU	A004	l ortilla de maiz Fécula de maiz (maiceses, polye para stale)
Food	Cereel	GRO	A005	Atros productos de maiz (materia, povo para atore)
Food	Wheat	WHT	A007	Harina de trico (refinada o integral)
Food	Wheat	WHT	800A	Tortilla de harina
Food	Wheat	WHT	A009	Galletas saladas
Food	Wheat	WHT	A010	Galletas duices
Food	Wheat	WHT	A011	Pan blanco incluya pan molido
Food	Wheat	WHT	A012	Pan de duice
Food	Wheat	WHI	A013	Pan de caja Res de marce (conceilles y posteles)
Food	VVneat		A014	Pan de marca (panecilios y pasteles) Posto poro sono
Food	Wheat	10/HT	A015	rasia para supa Otros productos de trigo: ossta para fritura, bojuelas, barina orenarada, etc.
Food	Rice	PCR	A017	Arroz en orson
Food	Rice	PCR	A01B	Offos productos de arroz: harina, tostado, etc.
Food	Cereal	GRO	A019	Avena
Food	Cereal	GRO	A020	Otros cereales: centeno, cebada, etc.
Food	Cereal	GRO	A021	Frituras procesadas de trigo o maiz
Food			2 Car	nes
			a) De r	es y temera
Food	Meat: cattle sheep goats horses	CMI	A022	Bistec y milanesa Bistec (merco y melide)
Food	Meat: cattle sheep goals notses	CMT	A023	Corido o retezo con bueso
Food	Meat: cattle sheep goals horses	CMT	A025	t omo v filete
Food	Meat: cattle sheep goats horses	CMT	A026	Cortes especiales: t-bone, roast beef aquias, etc.
Food	Meat: cattle sheep goats horses	CMT	A027	Chuleta y costilla
Food	Meat: cattle sheep goats horses	CMT	A028	Visceras: higado, riñones, sesos, corazón, medula y otras partes de res
			b) De j	Duerco
Food	Meat product nec	OMT	A029	Lomo y pierna
Food	Meat product nec	OMT	A030	Chuleta y costilla
Food	Meat product nec	OMT	A031	Pulpa, bistec, trozo y molida Missores: bistec, trozo y molida
Food	Meat product nec	OMT	c)	Viscelas, mgado, mones, sesos, conscon, medula y dinas partes de poerco
		•	Aves	
Food	Meat product nec	OMT	A033	Pollo en piezas
Food	Meat product nec	OMT	A034	Pollo entero
Food	Meat product nec	OMT	A035	Gallina entera o en piezas
Food	Meat product nec	ONT	A030	Visceras: corazon, nigado, etc., y otras partes del polio Otras eves: nevo, nichós, nato, etc.
Food	Meat product nec	OMT	d) Ofra	Orras aves, pavo, proton, paro, erc.
Food	Meat product nec	OMT	A038	Carnero y borrego
Food	Meat product nec	OMT	A039	Cabrito
Food	Meat product nec	OMT	A040	Otros: conejo, venado, iguana, etc.
Food	Meat product nec	OMT	e) Car	nes procesadas
Food	Meat product nec	OMT	A041	Jamón
Food	Meat product nec	OMT	A042	Tocino
Food	Meat product nec	OMT	A043	Salchicha Chodine w Igneropine
Food	Meat product nec	OMT	4044	Carries anchiladas o abumedas
Food	Meat product nec	OMT	A046	Queso de puerco
Food	Meat product nec	OMT	A047	Carne de res seca; cecina, machaca, reliena, etc.
Food	Meat product nec	OMT	A048	Otros: pastel de pollo, salami, mortadeia, etc.
			3 Pe	scados y mariscos
			a) Pes	scados y mariscos frescos
Food	Fish	FSH	A049	Huachinango
Food	rish Fich	FSH	A050	Mojarra
Food	rish Sieb	FSH	A051	
Food	Fish	FOR	A052	Nero Cazón liza y hagra
Food	Fish	FSH	A054	Camarón
Food	Fish	FSH	A055	Otros pescados y mariscos: trucha, jaiba, ostión, almeja, etc.
			b) Pe	cados y mariscos procasados
Food	Other food nec	OFD	A056	Sardinas
Food	Other food nec	OFD	A057	Atun
Food	Uther food nec	OFD	A058	Secos: Dacalao, charal, camaron, etc.
r000	Outler food field	0-0	MUDA	ou us. abulon, ostion, puipo, atc.

Food	Dairy Products
Food	Dairy Products
Food	Other animal approximat
Food	Other animal product
	on an entited product
Food	Vegetable oil and fats
1000	rogations on and tate
Food	Vegetables
1000	409000000

	4 Lech	e y denvados
	a) Lecho	
MIL	AD60	Pasteurizada
MIL	A061	No pasteurizada (bronca)
MIL	A062	Evaporada
MIL	A063	Condensada
MIL	A064	En polvo (entera o descremada)
MIL	A065	Matemizada
MIL	A066	Otras: cabra, burra, etc.
MIL	b) Ques	sos
MIL.	A067	Fresco
MIL	A068	Chihuahua
MIL	A069	Oaxaca y
MIL	A070	Manchego
MIL	A071	Amarillo
MIL	A072	Anejo y cotija
MIL	A073	Requesón
MIL	A074	Otros: enchilado, gruyere, parmesano, holandés, crema, etc.
MIL	c) Otros	s derivados de la leche
MIL	A075	Crema
MIL	A076	Mantequilla
MIL	A0//	Otros: yoghurt, jocoque, etc.
048	5 Hue	vos Gallina
OAP	A070	Otror: totuga nato navo etc
UAF	6. Are	ites v grasas
VOL	A080	Aceite vegetał
VOL	A081	Manteca vegetal
VOL	A082	Manteca de puerco
VOL	A083	Margarina
VOL	A084	Otros: aceite de oliva, enjundia, etc.
	7 Tub	érculos
V_F	A085	Papa
V_F	A086	Harina de papa para puré
V_F	A087	Otros: camote, yuca, name, betabel, etc.
V_F V E		Papas fillas en poisa duras locumbres locuminosas y semillos
V_F	a) Verr	duras, legumbres, legummosas y seminas
VF	A089	Tomate rojo (iitomate)
VF	A090	Tomate verde
V_F	A091	Chile serrano y jalapeño
V_F	A092	Chile poblano para rellenar
V_F	A093	Otros chiles: habanero, árbol, etc.
V_F	A094	Ceboila
V_F	A095	Ajo
V_F	A096	Aguacate
V_F	A097	Repolio o col
V_F	A090	Lechuga Zanaboria
V_F	A100	Penino
V F	A101	Fiote
VF	A102	Chicharo
vF	A103	Elote
V_F	A104	Chayote
V_F	A105	Calabacitas
V_F	A106	Nopales
V_F	A107	Verdolagas, espinacas y acelgas
V_F	A108	Peraju Ciloatto
	A109	Cilango Epoyeta péndo y poin
V F	A111	Venturas mixtas en holsa
V F	A112	Otros: alcachofa, quelites, romeritos, rábanos, poro, etc.
VF	b) Ver	duras y legumbres procesadas
V_F	A113	Chiles envasados
V_F	A114	Chiles secos o en polvo
V_F	A115	Verduras envasadas (incluya aceitunas)
V_F	A116	Verduras y legumbres congeladas
V_F	c) Leg	puminosas
V_F	A117	Frijol
V_F	A118	Garbanzo
V_F	A119	vuas: lenlejas, naba, etc. numinosas processolas
v_r v =	A120	Friiol (en caia o lata)
v _ r	A121	Otras leguminosas (en lata o secas)
V F	e) Se	millas
V_F	A122	Semillas a granel (nuez, piñón, almendra, cacahuate, etc.)
V_F	A123	Semillas envasadas (nuez, piñón, almendra, cacahuate, etc.)

V_F 9.- Frutas

Food	Vegetab ⁴⁸ les	VF	a) Fruta	s frescas
Food	Vegetables	v_r	A124	Naranja
Food	Vegetables	V_F	A125	Limón
Food	Vegetables	V_F	A126	Otros cítricos: lima, toronja, mandarina, etc.
Food	Vegetables	V_F	A127	Plátano tabasco
Food	Vegetables	V_F	A128	Otros plátanos: macho, dominico morado y manzano
Food	Vegetables	V_F	A129	Manzana o perón
Food	Vegetables	V_F	A130	Pera
Food	Vegetables	V_F	A131	Durazno y chabacano
Food	Vegetables	V_F	A132	Ciruela
Food	Vegetables	V_F	A133	Fresa
Food	Vegetables	V_F	A134	Guayaba
Food	Vegetables	V_F	A135	Mango
Food	Vegetables	V_F	A136	Marney
Food	Vegetables	V_F	A137	Papaya
Food	Vegetables	V_F	A138	Melón
Food	Vegetables	V_F	A139	Sandia
Food	Vegetables	V_F	A140	Piña
Food	Vegetables	V_F	A141	Jicama
Food	Vegetables	V_F	A142	Uva
Food	Vegetables	V_F	A143	Otras: guanabana, granada, tuna, higo, coco, tamarindo, etc.
Food	Vegetables	V_F	b) Frut	as procesadas
Food	Vegetables	V_F	A144	Almíbar o conserva: durazno, mango, piña, cereza, etc.
Food	Vegetables	V_F	A145	Cristelizadas y secas: pasitas, dátiles, chabacano, etc.
Food	Vegetables	VF	A146	Otras: frutas endulzadas, enchiladas, etc.
	-		10 Az	rúcar y mieles
Food	Sugar	SGR	A147	Azúcar (blanca y morena)
Food	Other food nec	OFD	A14B	Miel de abeja
Food	Other food nec	OFD	A149	Otras: glass, moscabada, piloncillo, miel de maiz, etc.
			11,- Ca	afé, Mé, chocolate
Food	Other food nec	OFD	A150	Café tostado (en grano o molido)
Food	Other food nec	OFD	A151	Café sin tostar (en grano)
Food	Other food nec	OFD	A152	Café soluble o instantáneo
Food	Other food nec	OFD	A153	Hojas para té (manzanilla, naranja, etc.)
Food	Other food nec	OFD	A154	Té soluble o instantáneo
Food	Other food nec	OFD	A155	Chocolate en tableta o en polvo
Food	Other food nec	OFD	A156	Otros: cocoa, etc.
			12 E	specias y Aderezos
Food	Other food nec	OFD	A157	Sal
Food	Other food nec	OFD	A158	Pimienta, clavo y comino
Food	Other food nec	OFD	A159	Canela
Food	Other food nec	OFD	A160	Mayonesa
Food	Other food nec	OFD	A161	Mostaza
Food	Other food nec	OFD	A162	Salsa catsup
Food	Other food nec	OFD	A163	Salsas picantes
Food	Other food nec	OFD	A164	Mole
Food	Other food nec	OFD	A165	Concentrados de pollo y tomate
Food	Other food nec	OFD	A166	Vinagre
Food	Other food nec	OFC	A167	Otros condimientos: aderezos, ablandadores, polvo para homear
			13 C	itros alimentos
			a) Alir	nentos preparados para bebé
Food	Other food nec	OFC	A168	Alimentos colados y picados de cualquier combinación
Food	Other food nec	OFC) A169	Cereales, sopas y galletas para bebé
Food	Other food nec	OFC	A170	Jugos de frutas y verduras de cualquier combinación
			b) Aliı	mentos preparados (para consumir en casa)
Food	Other food nec	OF	A171	Carnitas y chicharrón
Food	Other food nec	OFC) A172	Polios rostizados
Food	Other food nec	OFC	A173	Barbacoa
Food	Other food nec	OFE) A174	Birria
Food	Other food nec	OF) A175	Pizzas
Food	Other food nec	OFC) A176	Otros: sopa, guisados, ensaladas, tortas, encurtidos, etc.
			c) Alii	mentos diversos
Food	Other food nec	OF	A 177	Chapulines, gusano de maguey, etc.
- .			d) Du	ices y postres
Food	Uther food nec	UFI	J A178	Gelatinas, nanes y pudines en polvo
Food	Other food nec	UFL	J A1/9	Gelatinas, flanes y pudines
rooq Faat	Other food nec	OF	J A180	Faistas, carameios y otras golosinas
Food	Other food hec	OFI	J A181	Uzieras, jamoncillos y duices de leche
Food	Other food nec	OFI	J A182	Mermeradas, ates, jaleas y crema de cacanuate
Food	Other food nec	OFI	J A183	neiauos y neves
F004	Critier lood liec	UFI	J A184	ou us. ciliacayote, cucada, visnaga, alegnas, etc.
East	Other food	000	143	Joryicu up (Rolliku Nixtemal v etma
Food	Other food nec	OF	D A195	Castos conevos nara prenarar elimentos
F000	Other rood ties	UF	5 A100	Alimentos para enimales domésticos
Food	Other food and	05	10,47 D A197	-sinternos para antinaes domesioos Δnimales de esparsimiento
Food	Other food nec			Animales para trabajo y de producción
1.000		UP OF	16-1	Rabidas

Food	Beverages and tobacco	вт
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Food	Beverages and tobacco	B_T
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Food	Beverages and tobacco	ВТ
Food	Beverages and tobacco	в_т
Food	Beverages and tobacco	в_т
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Food	Beverages and tobacco	В_Т
Food	Beverages and tobacco	B_T
Food	Beverages and tobacco	B_1
Services	Decreation and other socies	809
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Services	Recreation and other services	ROS
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Services	Transport nec	OTF
Services	Transport nec	018
Services	Transport nec	018
Services	Transport nec	016
Services	Transport nec	OTF
Services	Transport nec	OTE
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Manufacturing	Chemical rubber plastic prods	CR
Manufacturing	Chemical rubber plastic prods	CR
Manufacturing	Chemical rubber plastic prods	CRI
Manufacturing	Metal Products	FM
Manufacturing	Chemical rubber plastic prods	CRI
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Manufacturing	Chemical rubber plastic prods	
Manufacturing	Machinery and Fourinment	
Services	Recreation and other services	RC
Manufacturing	Chemical rubber plastic prods	CR

	1 " Sebi	das no alcohólicas
B_T	A189	Refrescos o bebidas con o sin gas y jugos naturales
BŢ	A190	Agua mineral (con o sin sabor)
B_T	A191	Jugos y néctares enlatados
В_1 Б Т	A192	Agua punticada Concentrade y polyo para prenetar agua
8 T	A193	Otros: hielo, granadina, jarabe natural, etc.
в_т	2 Bebi	das alcohólicas
B_T	A195	Cerveza
B_T	A196	Brandy
B_T	A197	
В_1 р т	A198	
B T	A200	Ron
вт	A201	Aquardiente, mezcal, sotol
B_T	A202	Vinos de mesa
B_T	A203	Otros: sidra, rompope, jerez cremas, vodka, etc.
B_T	A204	Bebidas preparadas
000	B Alim	entos y bebidas consumidas fuera del hogar
ROS	A205	2) Comida
ROS	A207	3) Cena
ROS	A208	4) Entrecomidas
	C Tab	800
B_T	A209	Cigarros
B_T	A210	Puros
B_T	A211	Tabaco (en hoja y picado)
OTP	BO01	Metro
OTP	B002	Autobús
OTP	B003	Trolebús, tranvía
OTP	B004	Colectivo (pesero)
OTP	B005	Taxi, radio taxi (sitio)
OTP	8006	Autobús foráneo
OIP	1 MPIE	Otros (Dono de transporte, carretas; etc.)
	A Artic	ulos de limpieza y cuidado de la casa
CRP	C001	Detergentes
CRP	C002	Jabón de barra
CRP	C003	Blanqueadores
CRP	C004	Limpiadores (en polvo o líquido)
CRP	0005	Papel sanitano Sociilotas y papel ebsorbente
CRP	C008	Platos y vasos desectables, papel aluminio y encerado
CRP	C008	Escobas y trabeadores
CRP	C009	Fibras, estropajos y escobetas
CRP	C010	Jergas y trapos de cocina
CRP	C011	Cerillos
CRP	C012	Pilas
CRP	C013	rocos Cera y limpia muebles
CRP	C015	Insecticidas
CRP	C016	Desodorante ambiental y sanitario
FMP	C017	Recipientes de lámina (cubetas, tinas, etc.)
CRP	C018	Recipientes de plástico (cubetas, tinas, mangueras, etc.)
CRP	CU19 B Sec	Otros articulos: suavizantes de telas, etc.
ROS	C020	Servicio doméstico
ROS	C021	Lavandería
ROS	C022	Tintoreria
ROS	C023	Jardinería
ROS	C024	Otros servicios: fumigación, etc.
		culos para el cuidado personal
CRP	D001	Jabón de tocador
CRP	D002	Lociones y perfumes
CRP	D003	Pasta dental y enjuague bucal
CRP	D004	Champús, tintes y enjuagues
CRP	0005	Desodorante
CRP	0000	Crema, britantina y crema para alekal Navaias v rastrillos para afeitar
CRP	0008	Polvo y maquillaje facial
CRP	D009	Sombra, lápiz labial y de cejas, delineador, etc.
CRP	D010	Artículos de tocador para bebé
CRP	D011	Pañuelos desechables
CRP	0012	ranales desechables Toallas canitarias
CRP	D013	Cepillo, peine y cepillo dentrífico
OME	D015	Artículos eléctricos (rasuradora, secadora, etc.)
ROS	D016	Reparación y/o mantenimiento de artículos anteriores
CRP	D017	Otros: esmaltes y limas para uñas, pasadores, etc.

D017 Otros: esmaltes y limas para B. Servicios para el cuidado personal

Services	Recreation and other services	ROS	D018	Corte de cabello y peinado	
Services	Recreation and other services	ROS	D019	Baños y masales	
Services	Recreation and other services	ROS	D020	Permanentes y tintes	
Services	Recreation and other services	ROS	D021	Manicure	
Services	Recreation and other services	ROS	D022	Otros servicios: rasurar depilar etc.	
			EDUCA	CION. CULTURA Y RECREACION	
			A Serv	cios de educación	
Services	Pub admin defence bealth education	080	E001	Prentimaria	
Services	Pub admin defence health education	OSG	F002	Primaria	
Services	Pub admin defence health education	0SG	F003	Secundaria	
Services	Pub admin defence bealth education	000	5000		
Services	Pub admin defence health education	000	5004	Superior (Licenciaturas Médicos etc.)	
Services	Bub admin defense health aducation	000	E005	Superior (Cicencialidas, Modicos, etc.)	
Services	Pub admin defence health advantion	030	E000	Correro Massinas, doculados, especialidades	
30111083	Fub admin belence health education	030	5 Com	canara acuica o comorcial	
Continent	Dub admin defense kasikh advertion	000	D. 301V	Entension infentiles (out-ote constituerie)	
Services	Pub admin defence health education	030	E000	Estancias infantilies (excepto preprimana)	
Services	Pub aumin derence nealth education	030	E009	Ensenanza aucional	
Services	Pub admin derence health education	OSG	E010	Educación especial para discapacitados	
Services	Pub admin detence health education	OSG	2011	Internados	
Services	Pub admin defence health education	OSG	E012	Cuidado de niños (Persona particular)	
Services	Fransport nec	OTP	ED13	Iransporte escolar	
			C. Artic	ulos educativos	
Manufacturing	Paper Products Publishing	PPP	E014	Libros para la escuela	
Manufacturing	Paper Products Publishing	PPP	E015	Material escolar: cuademos, carpetas, etc.	
Manufacturing	Electronic eequip	ELE	E016	Equipo escolar: máquinas de escribir, calculadoras, etc.	
Manufacturing	Paper Products Publishing	PPP	E017	Material para actividades tecnológicas (educación formal)	
Manufacturing	Paper Products Publishing	PPP	E018	Material para Educación Técnica	
Manufacturing	Paper Products Publishing	PPP	E019	Material para Educación Adicional	
Services	Recreation and other services	ROS	E020	Reparación y/o mantenimiento de equipo escolar	
			D. Artic	culos de cultura y recreación	
Manufacturing	Paper Products Publishing	PPP	E021	Enciclopedias y libros (excluya los de la escuela)	
Manufacturing	Paper Products Publishing	PPP	E022	Periódicos	
Manufacturing	Paper Products Publishing	PPP	E023	Revistas	
Manufacturing	Machinery and Equipment	OME	E024	Audiocassete, discos y discos compactos	
Manufacturing	Machinery and Equipment	OME	E025	Otros	
-			E. Sen	ricios de recreación	
Services	Recreation and other services	ROS	E026	Cines	
Services	Recreation and other services	ROS	E027	Teatros y conciertos	
Services	Recreation and other services	ROS	E028	Bares y Centros noctumos (incluye alimentos, bebidas tabaco, cover, propinas, etc.)	
Services	Recreation and other services	ROS	E029	Espectáculos deportivos	
Services	Recreation and other services	ROS	E030	Loteria y juegos de azar	
Services	Recreation and other services	ROS	E031	Cuotas a: centros sociales, asociaciones, clubes, etc.	
Services	Recreation and other services	ROS	E032	Servicio de televisión por cable, satélite, pago por evento y paquetes.	
Services	Recreation and other services	ROS	E033	Renta de: cassetes para video juego, discos compactos y video cassete.	
				Otros enstas de corrección: cinese munere farire increa machines helperios etc.	
Services	Recreation and other services	ROS	E034	- Onos gastos de recreación, circos, múseos, tenas, juedos mecanicos, palmeanos, elc.	
Services	Recreation and other services	ROS	E034 COMU	NICACIONES Y SERVICIOS PARA VEHICULOS	
Services	Recreation and other services	ROS	E034 COMU A. Cor	Orios gasos de receación, oricos, moseos, renas, juegos mecanicos, bemeanos, erc. NICACIONES Y SERVICIOS PARA VEHICULOS runicaciones	
Services	Recreation and other services Transport nec	ROS	E034 COMU A. Con F001	Orios gastos de receación, oricos, museos, renes, juegos mecanicos, bameanos, erc. NICACIONES Y SERVICIOS PARA VEHICULOS runicaciones Teléfono particular	
Services Services Services	Recreation and other services Transport nec Transport nec	ROS OTP OTP	E034 COMU A. Con F001 F002	Orido gastos de receación, oricos, museos, renes, juegos mecanicos, bameanos, erc. NICACIONES Y SERVICIOS PARA VEHICULOS runicaciones Teléfono particular Teléfono público	
Services Services Services Services	Recreation and other services Transport nec Transport nec Transport nec	ROS OTP OTP OTP	E034 COMU A. Con F001 F002 F003	Ordos gastos de recretación, orcos, moseos, renas, juegos mecanicos, pameanos, etc. nunicaciones Teléfono particular Teléfono público Correo: estampillas, paquetería, etc.	
Services Services Services Services Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec	ROS OTP OTP OTP OTP	E034 COMU A. Con F001 F002 F003 F004	Orios gasos de receación, oricos, moseos, renas, juegos mecanicos, bameanos, erc. NICACIONES Y SERVICIOS PARA VEHICULOS Tunicaciones Teléfono público Correo: estampillas, paquetería, etc. Telégrafo	
Services Services Services Services Services Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec	ROS OTP OTP OTP OTP OTP	E034 COMU A. Com F001 F002 F003 F004 F005	Otros gasos de receación, orcos, moseos, renes, juegos mecanicos, bameanos, etc. NICACIONES Y SERVICIOS PARA VEHICULOS Teléfono particular Teléfono público Correo: estampillas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc.	
Services Services Services Services Services Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec	ROS OTP OTP OTP OTP	E034 COMU A. Com F001 F002 F003 F004 F005 B. Cor	Otros gastos de receación, orcos, moseos, renes, juegos mecanicos, bameanos, etc. NICACIONES Y SERVICIOS PARA VEHICULOS Teléfono público Correo: estampillas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc. houstible. Mantenimiento y Servicios para vehículos	
Services Services Services Services Services Services Manufacturing	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec Petroleum coal products	ROS OTP OTP OTP OTP OTP	E034 COMU A. Con F001 F002 F003 F004 F005 B. Cor F006	Ortos gasos de recreación: orcos, moseos, renas, juegos mecanicos, bameanos, erc. nunicaciones Teléfono particular Teléfono público Correo: estampillas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc. nbustible, Mantenimiento y Servicios para vehículos Gasolina, diesel o gas	
Services Services Services Services Services Services Manufacturing Manufacturing	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec Petroleum coal products Petroleum coal products	ROS OTP OTP OTP OTP P_C P_C	E034 COMU A. Con F001 F002 F003 F004 F005 B. Con F006 F007	Curos gasos de recreación. Croos, indexes, renas, juegos medanicos, bameanos, etc. nunicaciones Teléfono público Correo: estampilitas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc. houstible, Mantenimiento y Servicios para vehículos Gasolina, diesel o gas Aceites y lubricantes	
Services Services Services Services Services Manufacturing Manufacturing Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec Petroleum coal products Petroleum coal products Recreation and other services	ROS OTP OTP OTP OTP OTP P_C ROS	E034 COMU A. Con F001 F002 F003 F004 F005 B. Con F006 F007 F008	Otros gasos de recreación, cicos, indees, tertes, juegos mecanicos, bameanos, etc. Iuricaciones Teléfono público Correo: estampillas, paquelería, etc. Telégrafo Otros: Telex, giros, fax público, etc. noustible, Mantenimiento y Servicios para vehículos Gasolina, diesel o gas Aceites y lubricantes Pensión y Estacionamiento	
Services Services Services Services Services Services Manufacturing Manufacturing Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec Petroleum coal products Petroleum coal products Recreation and other services Recreation and other services	ROS OTP OTP OTP OTP OTP P_C ROS ROS	E034 COMU A. Com F001 F002 F003 F004 F005 B. Cor F006 F007 F008 F009	Vitos gastos de recreación, circos, indexes, renas, juegos mecanicos, bameanos, etc. NICACIONES Y SERVICIOS PARA VEHICULOS Teléfono público Correo: estampillas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc. noustible, Mantenimiento y Servicios para vehículos Gasolina, diesel o gas Aceites y lubricantes Pensión y Estacionamiento Lavado y engrasado	
Services Services Services Services Services Services Manufacturing Manufacturing Services Services Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec Petroleum coal products Petroleum coal products Recreation and other services Recreation and other services	ROS OTP OTP OTP OTP OTP P_C ROS ROS	E034 COMU A. Can F001 F002 F003 F004 F005 B. Cor F006 F007 F006 F007 F008 F009 F010	Unos gasos de recreación, incos, indeso, renas, juegos medanicos, bainearios, etc. NICACIONES Y SERVICIOS PARA VEHICULOS trunicaciones Teléfono paticular Telégono público Correo: estampillas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc. noustible, Mantenimiento y Servicios para vehículos Gasolina, diesel o gas Aceites y lubricantes Pensión y Estacionamiento Lavado y engrasado Otros erroicos: encerado, reparación de llantas, etc.	
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Services Services Services Services Services Services Manufacturing Manufacturing Services Services Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec Petroleum coal products Petroleum coal products Recreation and other services Recreation and other services	ROS OTP OTP OTP OTP P_C ROS ROS	E034 COMU A. Con F001 F002 F003 F004 F005 B. Cor F006 F007 F008 F009 F010 VIVIE/ A. Viv	Circos gasos de recreación. Circos, indexes, renas, juegos mecanicos, bainearios, etc. NICACIONES Y SERVICIOS PARA VEHICULOS tunicaciones Teléfono público Correo: estampilitas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc. nbustible, Mantenimiento y Servicios para vehículos Gasolina, diesel o gas Aceites y tubricantes Pensión y Estacionamiento Lavado y engrasado Otros servicios: encerado, reparación de llantas, etc. <i>IDA Y SERVICIOS DE CONSERVACION</i> enda	
Services Services Services Services Services Services Manufacturing Manufacturing Services Services Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec Petroleum coal products Petroleum coal products Recreation and other services Recreation and other services	ROS OTP OTP OTP OTP OTP P_C ROS ROS	E034 COMU A. Con F001 F002 F003 F004 F005 B. Cor F006 F007 F008 F009 F010 VIVIE/ A. Viv	Otros gastos de recreación: oricos, indexes, renas, juegos mecanicos, baineanos, etc. NICACIONES Y SERVICIOS PARA VEHICULOS trunicaciones Telégono paticular Telégono publico Correo: estampillas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc. nbustible. Mantenimiento y Servicios para vehículos Gasolina, diesel o gas Aceites y lubricantes Pensión y Estaclonamiento Lavado y engrasado Otros servicios: encerado, reparación de llantas, etc. NDA Y SERVICIOS DE CONSERVACION enda	
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Services Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec Petroleum coal products Petroleum coal products Recreation and other services Recreation and other services Recreation and other services Recreation and other services Dwellings Water	ROS OTP OTP OTP OTP OTP OTP P_C ROS ROS ROS ROS ROS DWE DWE DWE DWE DWE DWE DWE DWE DWE DWE	E034 COMU A. Cam F001 F002 F003 F004 F005 B. Cor F006 F007 F008 F009 F010 VIVIE/ A. Viv 1. Pro G001 G002 G003 G004 2. Ref G005 G006 3. Re(G007 G008 G009 4. Pre G011 G011 G012 G011 G012 G014 G014 G014 G014 G014 G014 G014 G014	Telégono particular Teléfono particular Teléfono particular Telégono particular Correo: estampillas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc. nbustible. Mantenimiento y Servicios para vehículos Gasolina, diesel o gas Aceites y lubricantes Pensión y Estacionamiento Lavado y engrasado Otros servicios: encerado, reparación de llantas, etc. NDA Y SERVICIOS DE CONSERVACION enda Dia Valor estimado del alquiler Cuota pagada Aqua Impuesto predial tada o alquilada Alquiler Aqua Cuota o pago por la vivienda stada Valor estimado del alquiler Only in autoconsumo Aqua Impuesto predial uiler de terrenos para uso exclusivo de la vivienda Alquiler Aqua Impuesto predial uiler de terrenos para uso exclusivo de la vivienda Alquiler Aqua	
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Services Services	Recreation and other services Transport nec Transport nec Transport nec Transport nec Transport nec Transport nec Petroleum coal products Petroleum coal products Recreation and other services Recreation and other services Recreation and other services Dwellings Uwater Dwellings Water D	ROS OTP OTP OTP OTP OTP OTP P_C ROS ROS ROS ROS ROS ROS ROS ROS ROS ROS	E034 COMU A. Cam F001 F002 F003 F004 F005 B. Cor F006 F007 F008 F009 F010 VV/IE A. Viv 1. Pro G001 G003 G004 2. Rer G005 G006 3. Ret G007 G006 G009 4. Pre G012 G009 4. Pre G015 G012 G012 G012 G012 G014 G014 G015 G015 G015 G015 G015	Ottos gastos de recreación: oricos, indexes, tertes, juegos mecanicos, bainearios, etc. NICACIONES Y SERVICIOS PARA VEHICULOS trunicaciones Teléfono particular Teléfono publico Correo: estampillas, paquetería, etc. Telégrafo Otros: Telex, giros, fax público, etc. housible, Mantenímiento y Servicios para vehículos Gasolina, diesel o gas Aceites y lubricantes Pensión y Estacionamiento Lavado y engrasado Otros servicios: encarado, reparación de llantas, etc. UDA Y SERVICIOS DE CONSERVACION enda oia Valor estimado del alquiler Only in autoconsumo Cuota pagada Agua Impuesto predial tada o alquilada Alquier Agua Utalor estimado del alquiler Qua cuota o pago por la vivienda stada Valor estimado del alquiler Agua Ibida como prestación Valor estimado del alquiler Qua asituación de la vivienda stada Valor estimado del alquiler	

Services	Water	WTR	G017	Amia
Services	Dwellings	DWE	G018	Impuesto predial
			7. Sólo	para hogares adicionales
Services	Dwellings	DWE	G019	Cuota, renta o pago por la vivienda
Services	Water	WIR	G020	Agua
Services	Dwellings	DWE	G021	Impuesto predial
			B. Serv	icios por conservación
Services	Duellions	DWE	0.022	Por servicios de conservación Recolección de hasura
Services	Owellings	DWE	6022	Cuotas de viollancia
Services	Dwellings	DWE	G024	Cuotas de administración
Services	Dwellings	DWE	G025	Otros servicios
			2. Elect	tricidad y combustible
Services	Electricity	ELY	G026	Energia eléctrica
Services	Gas distribution	GDT	G027	Gas
Primary	Oil	OIL	G028	Petróleo
Primary	Coal	COL	G029	
Primary Monufacturing	Porestry Retroleum coci products	FUR	G030	Lena
Manuracturing	Chemical subber plastic prode	2 <u>9</u>	G037	Velas y veladoras
Manufacturing	Chemical rubber plastic proda	CRP	G033	Otros combustibles: cartón napel etc.
ition in the octain ing		••••	PREN	DAS DE VESTIR, CALZADO Y ACCESORIOS
			A, Para	personas de 3 años y más
Manufacturing	Wearing apparel	WAP	H001	Pantalones para hombre de fibras sintéticas
Manufacturing	Wearing apparel	WAP	H002	Pantalones para hombre de mezclilla
Manufacturing	Wearing apparel	WAP	H003	Otros pantalones para hombre
Manufacturing	Wearing apparel	WAP	H004	Pantalones para mujer de fibras sintéticas
Manufacturing	Wearing apparel	WAP	H005	Pantalones para mujer de mezclilla
Manufacturing	Wearing apparel	WAP	H006	Otros pantalones para mujer
Manufacturing	Wearing apparel	WAP	HOUT	Gemisas para nomore
Manufacturing	Wearing apparel	WAP	1000	Playeras para nombre
Manufacturing	Wearing apparei	W/AP	1003	Traise
Manufacturing	Wearing apparel	WAP	H011	Sacos para hombre
Manufacturing	Wearing apparel	WAP	H012	Vestidos
Manufacturing	Wearing apparel	WAP	H013	Conjuntos
Manufacturing	Wearing apparel	WAP	H014	Faidas
Manufacturing	Wearing apparel	WAP	H015	Suéteres
Manufacturing	Wearing apparel	WAP	H016	Abrigas
Manufacturing	Wearing apparel	WAP	H017	Chamarras y chaquetas
Manufacturing	Wearing apparel	WAP	H018	Calzoncilios y truzas
Manufacturing	Wearing apparel	WAP	H019	Camisetas
Manufacturing	Vyeanng apparei	VAP WAR	H020	Calcelines, calcelas y mailas Postolotas
Manufacturing	Wearing apparen	WAP	H022	Falleles Brasieres y faias
Manufacturing	Wearing apparel	WAP	H023	Fondos y corpiños
Manufacturing	Wearing apparel	WAP	H024	Medias, pantimedias y tobimedias
Manufacturing	Wearing apparel	WAP	H025	Pijamas y camisones
Manufacturing	Wearing apparel	WAP	H026	Batas
Manufacturing	Wearing apparel	WAP	H027	Gabardinas
Manufacturing	Wearing apparel	WAP	H028	Impermeables y mangas
Manufacturing	Wearing apparel	WAP	H029	Uniformes y prendas de vestir para actividades educativas, artísticas y deportivas
Manufacturing	Wearing apparel		H030	Vestimente para eventos especiales derivados de la educación Telas, confricciones y construciones
Manutacturing	Wearing apparel	WAP	H032	Otras prendas para hombre (corbatas, str.)
Manufacturing	Wearing apparel	WAP	H033	Otras prendas para muler (rebozo, etc.)
manaraoranny	touring opport		B. Par	a menores de 3 años
Manufacturing	Wearing apparel	WAP	H034	Pañales de tela
Manufacturing	Wearing apparel	WAP	H035	Calzones de hule
Manufacturing	Wearing apparel	WAP	H036	Pantalones
Manufacturing	Wearing apparel	WAP	H037	Vestidos, trajes y mametucos
Manufacturing	vvearing apparei	WAP	H038	Billisas y piayaras Suddonan y chambridan
Manuracturing	Wearing apparel	WAP	H039	Suereres y chamonitas
Manufacturing	Wearing apparel	WAD		Catones de teia
Manufacturing	Wearing apparei	WAP	H042	Calcetines v calcetas
Manufacturing	Wearing apparel	WAP	H043	Pijamas y batas
Manufacturing	Wearing apparel	WAP	H044	Telas, confecciones y reparación
Manufacturing	Wearing apparel	WAP	H045	Otras prendas para bebé: baberos, delantales, fajillas, etc.
-			C. Ca	Izado y su reparación
Manufacturing	Leather products	LEA	H046	Zapatos de piel para hombre
Manufacturing	Leather products	LEA	H047	Zapatos de piel para mujer
Manufacturing	Leather products	LEA	H048	Zapatos de piel para menores de 3 anos Zapatos de pléstico para bombre
Manufacturing	Weating apparel	VVAP	1049 U050	Zapatos de plástico para mujer Zanatos de plástico para mujer
Manufacturing	waaring apparent	WAP	H051	Zapatos de plástico para menoras de 3 años
Manufacturing	Wearing apparel	WAP	H052	Tenis
Manufacturing	Wearing apparel	WAP	H053	Otros tipos de calzado: huaraches, etc.
Services	Recreation and other services	ROS	H054	Servicios de limpieza y reparación de calzado
Manufacturing	Wearing apparel	WAP	H055	Otros: agujetas, cremas, cepillos, etc.
			D. Ac	cesorios y efectos personales
Manufacturing	Leather products	LEA	H056	Somoreros, gorros y cachuchás

Manufacturing	Leather products	154	1057	Pologo
Manufacturing		LEA	HU37	Duisas
Manufacturing	Leather products	LEA	H058	Portafolios
Manufacturing	Leather products	ίEA	H059	Cinturones, carteras, monederos
Manufacturing	Wearing apparel	WAP	H060	Joveria de fantasia
Manufacturing	Wearing apparel	MAD	HOBI	Peloies de nuiso
Manufacturing	Mosting apparel	MAD	1000	
Manulaciumiy	wearing apparer	WAP	HUQZ	Encendedores, cigarreras y polveras
Manufacturing	Wearing apparel	WAP	H063	Otros accesorios: diademás, lêntes oscuros, etc.
Manufacturing	Wearing apparel	WAP	H064	Artículos y accesorios para el bebé.
Services	Recreation and other services	ROS	H065	Reparación v/o mantenimiento de los artículos anteriores(especifique)
			CDICT	
			CRIST	ALERIA, BLANCOS TOTENSILIOS DOINESTICOS
			A. Cris	talería, vajillas y utensilios domésticos
Manufacturing	Chemical rubber plastic prods	CRP	1001	Vajilla completa de cristal, barro, plástico, etc.
Manufacturino	Chemical rubber plastic prods	CRP	1002	Piezas sueltas de vajilla de cristal harro, plástico, etc.
Manufacturing	Chemical subbar plastic grade	COD	1003	Recipientes e rejec de cléstico ence la casina
wanulacturing	chemical tobbel plastic prods	ORP	1003	Recipierres o calas de plasilos para la coorna
Manufacturing	Chemical rubber plastic prods	CRP	1004	Vasos, copas y jarras de cristal, plástico, cerámica, etc.
Manufacturing	Chemical rubber plastic prods	CRP	1005	Cubiertos
Manufacturing	Chemical rubber plastic prods	CRP	1006	Objetos ornamentales
Manufacturing	Chamical a bhar plastic prode	CDD	1007	Accesorios de hule y plástico: inhonera tanetes etc
Manufacturing	Chemical rubber plastic prods	one	1007	Accessiones de rídie y plastico, jabolicita, tapetes, etc.
Manufacturing	Chemical rubber plastic proos	CRP	1008	Reioj de pared o mesa
Manufacturing	Metal Products	FMP	1009	Bateria de cocina y piezas sueltas
Manufacturing	Metal Products	FMP	1010	Olla express
Macufacturing	Motal Broducts	EMD	1011	Otros utansilias: hieras abrelatas nievas nom bialo, etc.
manuacturing		5.40	1011	
wanutactuning	Metal Products	FMP	1012	Herramientas: pinzas, martilio, talaoro, etc
Services	Recreation and other services	ROS	1013	Reparación y/o Mantenimiento de los artículos anteriores
			B. Blar	ncos, mantelería y artículos de mercería
Manufacturing	Textiles	TEX	1014	Colchones
Manufacturing	T	TEN	1017	
Manufacturing	I extiles	IEX	1015	Colchonetas
Manufacturing	Textiles	TEX	1016	Cobertores y cobijas
Manufacturing	Textiles	TEX	1017	Sábanas
Manufacturing	Tavtilas	TEY	1018	Eundos
Manufacturing	Textiles	TEV	1010	
Manutacturing	rextiles	ICX	1019	Coicnas
Manufacturing	Textiles	TEX	1020	Manteles y servilletas
Manufacturing	Textiles	TEX	1021	Toallas
Manufacturing	Textiles	TEX	1022	Cortinas
Manafaotaning		TEV	1000	
wanusacturing	rexules	ICA	1023	relas, confecciones y reparaciones de artículos para el nogar
Manufacturing	Chemical rubber plastic prods	CRP	1024	Hilos, hilazas y estambres
Manufacturing	Chemical rubber plastic prods	CRP	1025	Agujas, cierres, botones y broches
Manufacturing	Manufactures nec	OME	1026	Otros articulos: hamacas almohadas colines secadores etc
ina dia dia dia 19			CUIDA	NOOS DE LA CALLID
				ADUS DE LA SALUD
			A. Ate	nción primaria o ambulatoria (no hospitalaria ni embarazo)
Services	Pub admin defence health education	OSG	J001	Consultas médicas
Services	Pub admin defence health education	OSG	J002	Consultas dentales
Services	Pub admin defence health education	OSG	.003	Consultas con el oculista, optometrista u offalmólogo
Oct Vices	Dub edición defenses hantila education	000	1004	A diama to a book at a promoniata a ontasnologo
Services	Pub aomin deferice nealth education	056	J004	Medicamentos recetados y vacunas
Services	Pub admin defence health education	OSG	J005	Análisis clínicos
Services	Pub admin defence health education	OSG	J006	Rayos X, Ultrasonidos, Tomográfias, Electroencefalogramas etc.
Services	Pub admin defence health education	050	1007	Hierbas medicinales, emulates y remedios caseros
Convieco	Dub odmin defense baelih adusetion	000	1000	Previolas medicinaisa, andreios y remotios caseros
Services	Pub admin defence health education	USG	1009	Servicios no protesionales (curandero, nuesero, etc.)
Services	Pub admin defence health education	OSG	J009	Otros: ambulancias, aplicaciones de invecciones, etc.
			B. Ate	nción hospitalaria (no incluve parto)
Services	Pub admin defence health education	056	1010	Honorarios por servicios profesionales
Convisos	Pub admin defense bealth advaction	000	1044	
Services	Pub aumin defence health education	056	JUN	medicamentos recetados
Services	Pub admin defence health education	OSG	J012	Análisis clínicos
Services	Pub admin defence health education	OSG	J013	Estudios Médicos: Ravos X. Ultrasonidos, Tomografías, Electrocardiogramas
Services	Pub admin defence health education	OSG	.014	Hospitalización
Convices	Pub odmin defense basith education	000	1010	
Services	Pub admin defende nealth education	056	3015	Otros: ambularicias, etc.
			C, Ser	vicios médicos y medicamentos durante el embarazo
Services	Pub admin defence health education	OSG	J016	Consultas médicas
Services	Pub admin defence health education	OSG	.1017	Servicios de partera
Services	Pub admin defence beatth education	050	1018	Medicamentos mestados
Ocivicea	Pub admin defence health education	000	1010	
Services	Pub admin defence nealth education	USG	1018	Analisis clinicos
Services	Pub admin defence health education	OSG	J020	Estudios médicos, rayos X, ultrasonido, etc.
Services	Pub admin defence health education	OSG	J021	Servicios no profesionales (comadrona, bruia, etc.)
Services	Pub admin defence beatth education	050	1022	Highes madicipales, remadios casaras y stras
Convious	Pub admin defense health aducation	000	1022	the site in a least a least a least a set
Services	Pub admin defence nealth education	056	JU23	nospitalización durante el emparazo no parto
Services	Pub admin defence health education	OSG	J024	Otros: Aplicación, inyecciones, ambulancias
			D. Ser	rvicios médicos durante el parto
Services	Pub admin defence health education	OSG	1025	Honoratios por servicios profesionales
Services	Dub admin defense bankh advanti-	000	1020	Convision de portere
Gervices	Fub aumin derence nealth education	USG	JU26	Servicios de partera
Services	Pub admin defence health education	OSG	J027	Medicamentos recetados
Services	Pub admin defence health education	OSG	J028	Hospitalización, sanatorios, clínicas, etc.
Services	Pub admin defence health education	086	1020	Análisis clínicos
Convince-		000	1000	rummun ummung Bakadian mildian anala Valtananida at-
Services	Fup again denance health education	USG	1030	Estudios medicos, rayos A, utrasonido, etc.
Services	Pub admin defence health education	OSG	J031	Servicios no profesionales (comadrona, curandero, etc.)
Services	Pub admin defence health education	OSG	J032	Otros: ambulancias, etc.
		-	E. Me	dicamentos sin receta
Manufacturing	Chemical rubber plastic prode	CPP	1023	Material nara primeros auvilios (standán, cons issingen, sto.)
Manufacturing	Chamber tobor plastic prous	000	1033	movement para primaros auxinos (algouon), gasa, jeringas, etc.)
manufacturing	Chemical rubber plastic prods	CRP	J034	Anticonceptivos
Manufacturing	Chemical rubber plastic prods	CRP	J035	Vitaminas
Manufacturing	Chemical rubber plastic grods	CRP	J036	Analgésicos, Antidiarréicos
				Antibióticos
Manufacturing	Chemical rubber plastic prods	CRP	J037	Jarabes, tónicos y brebaies

Manufacturing Chemical rubber plastic prods CRP J038 Otros medicamentos sin receta F. Aparatos ortopédicos y terapéuticos Machinery and Equipment Manufacturing OME 1039 Anteojos y lentes de contacto Manufacturing Machinery and Equipment OME 1040 Placas y puentes dentales Manufacturing Machinery and Equipment OME J041 Aparatos para sordera Manufacturing Machinery and Equipment OME J042 Otros aparatos; ortopédicos (muletas, sillas de ruedas, etc.) Services Recreation and other services J043 ROS Reparación v/o Mantenimiento de los aparatos anteriores(especifique) G. Seguro médico Services Insurances ISR 1044 Cuotas a hospitales o clínicas Services Insurances ISR J045 Cuotas a compañías aseguradoras ENSERES DOMESTICOS Y MANTENIMIENTO DE LA VIVIENDA A. Enseres domésticos Manufacturing Machinery and Equipment OME K001 Ventilador Manufacturing Machinery and Equipment OME K002 Aparatos teléfonicos Manufacturing Machinery and Equipment OME K003 Aparatos de aire acondicionado Manufacturing Machinery and Equipment OME K004 Máquina de coser Manufacturing K005 Machinery and Equipment OME Cocina integral Manufacturing Machinery and Equipment OME K006 Estufa de gas OME K007 Estufas de otros combustibles (petróleo, carbón, etc.) Manufacturing Machinery and Equipment Manufacturing Machinery and Equipment OME K008 Refrigerador Machinery and Equipment Manufacturing OME K009 Licuadora Manufacturing Machinery and Equipment OME K010 Batidora Manufacturing Machinery and Equipment OME K011 Plancha OME K012 Extractor de jugos Manufacturing Machinery and Equipment Manufacturing Machinery and Equipment OME K013 Lavadora Manufacturing Machinery and Equipment OME K014 Aspiradora Manufacturing Machinery and Equipment OME K015 Calentador de gas Manufacturing Machinery and Equipment OME K016 Calentador de otros combustibles Manufacturing Machinery and Equipment OME K017 Lámparas eléctricas Manufacturing Machinery and Equipment OME K018 Lámparas de otros combustibles Manufacturing Otros aparatos: tostador, calefactor, orno de microondas, etc. Machinery and Equipment OME K019 Recreation and other services ROS K020 Reparación y/o mantenimiento de los artículos anteniores (especifique) Services B. Mue les Manufacturing Wood Producta LUM K021 Juego de recâmara Manufacturing Wood Producta LUM K022 Piezas sueltas de recámara (camas, tocadores, literas, cunas, cómodas, buros, roperos, etc.) Manufacturing Wood Producta LUM K023 Juego de comedor o antecomedor Manufacturing Wood Producta LUM K024 Piezas sueltas para comedor o antecomedor (mesa, silla, etc.) Manufacturing Services LUM K025 Juego de sala LUM Wood Producta Piezas sueltas para sala (mesa de centro, etc.) Manufacturing K026 Muebles para cocina (gabinete, mesa, etc.) Manufacturing Wood Producta LUM K027 Wood Producta LUM K028 Alfombras y tapetes Manufacturing Manufacturing Otros muebles: librero, escritorio, mesa para t.v., etc. Wood Producta LUM K029 Recreation and other services ROS K030 Reparación y/o mantenimiento de los artículos anteriores(especifique) enimiento, reparación y ampliación de la vivienda que habita el hogar. C. Man Services Dwellings DWF K031 Materiales para: reperación, mantenimiento y ampliación Dwellings Services DWE K032 Servicios de: reparación, mantenimiento y ampliación, etc. D. Mantenimiento, reparación, ampliación y construcción de la vivienda que no habita el hogar. DWE Dwellings X033 Materiales para: reparación, mantenimiento, ampliación y construcción Services DWE K034 Servicios para: reparación, mantenimiento, ampliación y construcción Services Dwellings ARTICULOS DE ESPARCIMIENTO A. Artículos y equipo audiovisual Radio y radio despertador sin tocacintas Manufacturing Electronic equipment ELE L001 Manufacturing Electronic equipment ELE 1 002 Estéreo o modular Manufacturing Electronic equipment FLE L003 Grabadora con o sin despertador excepto con disco compacto Manufacturing L004 Electronic equipment ELE T. V. blanco y negro L005 T. V. color Manufacturing Electronic equipment ELE 1006 Manufacturing ELE Videocassetera Electronic equipment Electronic equipment ELE L007 Computadora Manufacturing Manufacturing Electronic equipment ELE L008 Antena parabólica Manufacturing Electronic equipment ELE L009 Accesorios: bocinas, audifonos, antena aérea, etc. Manufacturing Electronic equipment ELE 1010 Videocassetes Manufacturing Electronic equipment FIF 1011 Reproductor de discos compactos para vehículo y auto estéreo Manufacturing Electronic equipment ELE L012 Reproductor de disco compacto L013 Alguiler de t.v. y equipo Manufacturing Electronic equipment ELE Manufacturing Electronic equipment ELE L014 Otros aparatos: regresadora de video, reproductor de cassete personal (walkman), etc. Services Recreation and other services ROS L015 Reparación y mantenimiento de los artículos anteriores B. Equipo fotográfico y de video Manufacturing Electronic equipment ELE L016 Proyectores Manufacturing Electronic equipment ELE 1017 Cámaras fotográficas y de video Manufacturing Electronic equipment ELE L018 Material fotográfico, películas, lentes, etc. Otros artículos y servicios: tripie, alquiler de equipo: proyectores, etc. Manufacturing ELE L019 Electronic equipment Reparación y mantenimiento de los artículos anteriores Recreation and other services L020 ROS Services C. Otros artículos de esparcimiento OMF Manufacturing Manufactures nec L021 Juguetes Manufactures nec OMF L022 Juegos electrónicos, videojuegos Manufacturing Manufacturing Manufactures nec OMF L023 Instrumentos musicales OMF L024 Artículos de deporte y cacería Manufacturing Manufactures nec Artículos de jardinería: plantas, flores, macetas, tierra, abono, etc. OCR L025 Crops nec Food Reparación y mantenimiento de los artículos antenores (especifique) Recreation and other services ROS L026 Services Compra y cuidado de animales domésticos (excluya alimentación) Manufacturing Manufactures nec OMF L027 TRANSPORTE

			A. Servi	icios de transporte
Services	Transport nec	OTP	M001	Transporte foráneo
Services	Transport nec	OTP	M002	Transporte ferroviano
Services	Transport nec	OTP	M003	Transporte aéreo
Services	Transport nec	OTP	M004	Servicios de carga y mudanza
Services	Transport nec	OTP	M005	Cuotas de autopista
Services	Transport nec	OTP	M006	Otros: lancha, barco, carreta, alquiler de vehículos, etc
			B. Adau	lisición de vehículos de uso particular
Manufacturing	Motor Vehicles	MVH	M007	
Manufacturing	Motor Vehicles	MVH	M008	Camioneta (Pick Lin)
Manufacturing	Motor Vehicles	MVH	M009	Motoneta y motocicleta
Manufacturing	Transport Equipment	OTN	M010	Bicicleta
Manufacturing	Transport Equipment	OTN	MO11	Otros: remolave lancha etc.
mananactaning	Transport Equipment	0111	C Dofo	ouos, remolque, rancia, etc.
Manu (acturing	Motor Vehicles	MV/H	M012	Lantas
Manufacturing	Motor Vehicles	MUL	M013	
Manufacturing	Motor Vehicles		M/013	References builde handes filter etc.
Manufacturing	Motor Vehicles		MOIE	Relaciones, bujes, bandas, nicos, etc.
Manuracturing	Motor Venicies		WO15	Partes de veniculos; viunos, salpicadera, etc.
manuraciuning	Motor venicles	MVH	MU16	Accesorios: espejos, manijas, antenas, etc.
Services	Recreation and other services	ROS	MU17	Servicio de atinación, alineación y balanceo
Services	Recreation and other services	ROS	M018	Otros servicios: ajuste de motor, de frenos, hojalateria, pintura, etc.
			OTROS	SGASTOS
			A. Gas	tos diversos
Services	Business services	OBS	N001	Servicios profesionales: abogados, notarios, arquitectos, etc. (no incluya médicos)
Services	Business services	OBS	N002	Funerales, cementerios
Services	Recreation and other services	ROS	N003	Paquetes para fiesta (salón, comida, orquesta)
Services	Recreation and other services	ROS	N004	Gastos turísticos: paquetes, hospedaje, alimentos, tours, etc.
Services	Recreation and other services	ROS	N005	Hospedaje o alojamiento (con o sin alimento)
Services	Pub admin defence health education	OSG	N006	Gastos en cargos comunales para festividades locales
Services	Pub admin defence health education	OSG	N007	Contribuciones para obras de servicio público local
Services	Insurances	ISR	N008	Seguros de automóvil
Services	Insurances	ISR	N009	Seguros contra incendio, daños, nesgos, educación y seguro de vida
Services	Business services	OBS	N010	Otros gastos diversos no comprendidos en las categorías anteriores (especifique)
			B. Trar	nsferencias
Residual	Savings	SAV	N011	Indemnizaciones pagadas a terceros
Residual	Savings	SAV	N012	Pérdidas y robos en dinero (excluya negocios)
Residual	Savings	SAV	N013	Avuda a parientes y personas no miembros del hogar (en dinero)
Residual	Savings	SAV	N014	Contribuciones a instituciones benéficas, iglesias, cruz roia (en dinero), incluye los servicios
	•			eclesiásticos
Services	Pub admin defence health education	OSG	N015	Servicios del sector público: expedición de pasaportes, actas, títulos, etc.
Services	Pub admin defence health education	OSG	N016	Trámites para vehículos: licencias, tenencias, placas, verificación vehicular, etc
			EROG	ACIONES FINANCIERAS Y DE CAPITAL
Residual	Savings	SAV	Q001	Depósitos en cuentas de ahorros, tandas, cajas de ahorro, etc.
Residual	Savings	SAV	Q002	Préstamos a terceros
Residual	Savings	SAV	Q003	Pagos a Tarieta de Crédito Bancaria o Casa Comercial
Residual	Savings	SAV	Q004	Pago de deudas a la empresa donde trabajan v/o a otras personas o instituciones (excluva
	•			Créditos Hipotecarios)
Residual	Savings	SAV	Q005	Compra de monedas nacionales o extranjeras, metales preciosos, alhajas, obras de arte, etc.
Residual	Savings	SAV	Q006	Seguro de Vida
Residual	Savings	SAV	Q007	Herencias, dotes y legados
Residual	Savings	SAV	Q008	Compra de casas, condominios, locales o terrenos que no habite el hogar
Residual	Savings	SAV	Q009	Compra de terrenos, casas o condominios que habita el hogar
Residual	Savings	SAV	Q010	Pago de hipotecas de bienes inmuebles: casas, terrenos, edificios, etc.
Residual	Savings	SAV	Q011	Otras erogaciones no consideradas en las precuntas anteriores, específicue
Residual	Savings	SAV	Q012	Compra de maguinaria, equipo, animales destinados a la producción, etc.utilizados en
	- u -			negocios propiedad del hogar
Residual	Savings	SAV	Q013	Balance negativo en negocios propiedad del hogar no agropecuario y agropecuario
Residual	Savings	SAV	Q014	Compra de valores: cédulas, acciones y bonos
Residual	Savings	SAV	Q015	Compra de marcas, patentes y derechos de autor
	-			· · · · ·
Residual	Savings	SAV	т	Other transfers

CLASSIFICATION OF INCOME

GTAP Sector

Wages Wages Wages Wages Wages

Household Sector

	INGRE	SOS NETOS DEL HOGAR						
	A. Ingr	esos netos por remuneraciones al trabaj	0					
Wages	P001	01 Sueldos, salarios, jornal y horas extras						
Wages	P002	Comisiones, propinas y destajo						
Wages	P003	Aguinaldo, gratificaciones, premios y	recompensas adicionales					
Wages	P004	Primas vacacionales y otras prestacio	nes en efectivo					
Wages	P005	P005 Reparto de utilidades endowment shares (fro						
	B. Ingr	esos netos de negocios propios	Land	Wages	Capital			
Wages and Capital	P006	Negocios industriales		28%	72%			
Wages and Capital	P007	Negocios comerciales		35%	65%			
Wages and Capital	P008	Prestación de servicios		35%	65%			

Wages Land and Capital	P009	Producción agricola	17%	36%	47%
Wages Land and Capital	P010	Producción pecuaria y derivados	17%	36%	47%
Wages Land and Capital	P011	Producción forestal	17%	36%	47%
Wages Land and Capital	P012	Recolección de flora, productos forestales y caza	17%	36%	47%
Wages and Capital	P013	Acuacultura y pesca		28%	72%
	C. Ingre	sos netos por cooperativas			
Wages Land and Capital	P014	Sueldos o salarios	5%	36%	59%
Wages Land and Capital	P015	Ganancias o utilidades	5%	36%	59%
	D. Inare	esos netos por renta de la propiedad			
Capital	P016	Alquiler de tierras y terrenos			
Capital	P017	Alquiler de casa, edifícios, locales y otros inmuebles			
Capital	P018	Intereses provenientes de inversiones a plazo fijo			
Capital	P019	Intereses provenientes de cuentas de ahorro			
Capital	P020	Intereses provenientes de préstamos a terceros			
Capital	P021	Intereses provenientes de acciones, bonos y cédulas			
Capital	P022	P022 Alquiler de marcas, patentes y derechos de autor			
	E.				
	Transfe	rencias			
Wages	P023	Jubliaciones y/o pensiones			
Transfers	P024	Indemnizaciones recibidas de seguros contra riesgos y terceros			
Transfers	P025	Indemnizaciones por despido y accidentes de trabajo			
Transfers	P026	Becas y donativos provenientes de institucione	95		
Transfers	P027	Regalos y donativos originados dentro del pais	5		
Transfers	P028	Ingresos provenientes de otros países			
Land	P029	Benenicio de PROCAMPO			
	F. Utro	s ingresos comentes			
Negative Savings	P030	Venta de veniculos, aparatos electricos de seg	gunda mano, etc.		
Negative Savings	P031	Utros ingresos comentes no considerados en	los antenores		
	PERC	EPCIONES FINANCIERAS Y DE CAPITAL			
Negative Savings	P032	Retiro de inversiones, ahorros, tandas, cajas o	ie ahorros, etc.		
Negative Savings	P033	Ingresos por préstamos a terceros que hizo a	otras personas no	miembros del hoga	r
Negative Savings	P034	Préstamos de personas no miembros del hoga	ar o instituciones (e	excluya préstamos l	hipotecarios)
Negative Savings	P035	Venta de monedas, metales preciosos, joyas y	y obras de arte		
Negative Savings	P036	Venta de valores, acciones, cédulas y bonos			
Negative Savings	P037	Venta de derechos de autor, patentes y marca	as		
Negative Savings	P038	Herencias, dotes, loterías y legados			
Negative Savings	P039	Venta de casas, terrenos, condominios, etc.			
Negative Savings	P040	Venta de maquinaria, equipos, animales desti negocio propiedad del hogar	nados a la product	ción, vehículos, etc.	utilizados er
Negative Savings	P041	Préstamos hipotecarios por bienes inmuebles	: casas, terrenos, e	edificios y locales	
Negative Savings	P042	Seguros de vida			
Negative Savings	P043	Otras percepciones de capital no considerada	is en las anteriores	6	

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