

Nicaragua

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1. Introduction

This document describes the steps behind the creation of the second Input-Output (I-O) table of Nicaragua¹ for the Global Trade Analysis Project (GTAP).² The GTAP I-O table for Nicaragua is based on the 2000 Social Accounting Matrix (SAM) built in the framework of the project “*Impact of DR-CAFTA on Growth, Poverty and Inequality in Nicaragua: An ex-ante evaluation using a dynamic computable general equilibrium model*” funded by the Ministry of Development, Industry and Trade (MIFIC in Spanish) of Nicaragua, the US Agency for International Development (USAID) and the United Nations’ Development Program (UNDP) and with support of the Institute of Social Studies, The Hague, and the sub-regional office of the Economic Commission for Latin America and the Caribbean (ECLAC) of the United Nations in Mexico. The study and details of the construction of the SAM can be found in Sánchez and Vos (2006). The 2000 SAM is based on data from the Central Bank of Nicaragua, which reviewed and approved the data.

This document is divided into 4 sections. Section 2 explains the data and the construction of the SAM, its particular characteristics and its salient economic features. Section 3 describes the process of building the GTAP ready data base, outlining some of the assumptions made about the structure of the source data so it could be consistent with GTAP specifications. Finally, section 4 describes briefly the sectoral aggregation and splits.

2. Source Data

2.1 Data Characteristics

The SAM of Nicaragua has a commodity (product)-by-industry (activity) format. The units are in thousands of local currency units (*córdobas*) in nominal terms at purchasers’ prices, and include 39 commodities and 40 activities in the year 2000. Table 1A provides a list of commodities with descriptions and concordances between the Nicaragua I-O commodity classification and the SIC rev.3 (ISICr3). Similarly, Appendix B provides the sectoral aggregation of Nicaragua’s sectors

¹ The first Input-Output table of Nicaragua included into the GTAP Data Base was prepared by Ludena and Schuschny (2007), based on Supply-Use Tables from the Central Bank of Nicaragua.

² The preparation of the I-O table for GTAP was facilitated by resources from the Economic Commission for Latin America and the Caribbean (ECLAC), the Department of Economic and Social Affairs of the United Nations (UN-DESA) and Germany’s international cooperation agency GTZ (Deutsche Gesellschaft für Technische Zusammenarbeit). The original table and Social Accounting Matrix (SAM) was prepared with the auspices of the agencies mentioned in the text. The inclusion of Nicaragua into GTAP is the result of a collaborative effort of the International Trade and Integration Division of ECLAC and the Development Policy and Analysis Division of UN-DESA to facilitate improved quantitative trade and macroeconomic policy analysis in Central America.

and its concordance with GTAP sectoral classification (GSC2). Table3A provides a summary diagram of the procedures followed to convert the source data to the GTAP format.

2.2 Construction of Nicaragua's SAM

As described in Sánchez and Vos (2006), the SAM construction followed a “top-down approach”, where cells in the SAM were initially determined by a “relatively” aggregated subset of national accounts, to later estimate a subset of more disaggregated information that allows to estimate the initial total aggregates, which act as control in the estimation process (Thorbecke, 2003). That is, a macroeconomic matrix was first estimated with the goal of later estimating a microeconomic matrix, with an important level of disaggregation of factor and institutional income flows.

For the purposes of this technical note for the GTAP Data Base, we will only discuss those aspects of the SAM that we considered relevant for this data base and omit those that were not included in these data for GTAP.

2.2.1 Macroeconomic SAM from the Central Bank of Nicaragua

Following the format of a basic SAM, the Central Bank of Nicaragua built a 2000 macroeconomic matrix in thousands of *córdobas*. This allowed consolidating information of Supply-Use matrices and other national accounts. In some cases, the Central Bank did not have the required information at the desired level of disaggregation. For that reason, the Central Bank made the following assumptions and adjustments to deduce the missing information and ensure consistency and certain level of disaggregation in the initial accounting setup:

- Interest payments and receipts were split by institutions, using the equity and assets structure of commercial banks in December 2002.
- Tax rebates were excluded from the accounting.
- Column-wise, households were disaggregated into two accounts, one for urban and one for rural households. However, row-wise households were disaggregated by primary and non-primary income source, which generated an asymmetry in the macroeconomic matrix.
- Due to the lack of detailed information on income transfers between domestic institutions and redistribution of net profits, household savings were estimated residually, and only for urban households, under the assumption that rural households in Nicaragua, the majority of which are poor, do not save. Thus, the residual obtained turned out to be large and negative (approximately 10% of total household income).

2.2.2 Macroeconomic SAM

To obtain a consistent macroeconomic SAM of Nicaragua from the initial data provided by the Central Bank, Sánchez and Vos (2006) consolidated several accounts and made adjustments as follows:

- Urban and rural households were aggregated into one household account (column-wise and row-wise).
- Primary and secondary income transfers between factors and institutions and among domestic institutions were consolidated.

- The Make Matrix of “activities” and “commodities” was transposed into a commodities-to-activities matrix.
- The Central Bank’s macroeconomic matrix included a separate account for household consumption of non-market production. However, because this kind of production was marginal (and referring only to cereals and rental and government services), non-marketed output was consolidated with marketed output and household consumption “purchased”.
- Values of “direct purchases” as recorded in the original macroeconomic matrix were reallocated to establish accounting consistency following the SAM framework. According to the 1993 United Nations System of National Accounts, “direct purchases” refer to acquisitions of, for example, air tickets and other transport and tourism related purchases. On those grounds, an adjustment was made in “transport” services to record them as part of: a) intermediate consumption for activities of transport services and business services; b) final household demand, which is equal to the net value of resident household purchases minus non-residents exports; c) final demand of transport exports; and, d) imports of transport services in the case of direct purchases of households and government overseas.
- Values of export subsidies were distributed proportionally over exported commodity to obtain a provisional balanced matrix.

Based on what has been previously described, a macroeconomic SAM was generated. This was adjusted further to eliminate accounting inconsistencies that resulted from the initial allocation of export subsidies. Also, the initial macroeconomic SAM did not separate the textile sector into production for the domestic market and that produced in Free Trade Zone for exports. This distinction was introduced in the microeconomic SAM constructed by Sánchez and Vos (2006), which also further disaggregated accounts for labor, households and import duties, as well as bilateral trade with countries and regions.

2.2.3 Microeconomic SAM

To obtain the microeconomic SAM, three major changes were made to the macroeconomic SAM. First, labor income was disaggregated by different types of workers classified by skill level, occupational category, and sex. Second, household accounts were disaggregated into separate accounts for urban and rural households. Third, export subsidies were more adequately accounted based on more reliable information as further indicated below. In this section, we only discuss the third step, since the data for the first two steps are not relevant for the I-O table transformed for the purpose of the GTAP Data Base. The treatment of the Free Trade Zone (“*Zona Franca*”) data is not discussed either, since for the GTAP Data Base textiles had to be re-aggregated into one sector. The disaggregation of transactions with the rest of the world to account for bilateral trade is not an issue either, since GTAP takes care of it in the data base construction process (Dimaranan and McDougall, 2002) such that the various rest of the world accounts of Sánchez and Vos’ SAM were actually aggregated into one for the purposes of the GTAP Data Base. Details on the aforementioned first two changes as well as on the treatment of the Free Trade Zone and bilateral trade data can be found in Sánchez and Vos (2006).

Export subsidies were re-allocated by commodities following a two-step procedure. First, initial estimates of export subsidies by products were obtained on the basis of information from the WTO (Nicaragua WTO Report, 2001). This information showed that, in 2000, the main products receiving fiscal incentives in Nicaragua were coffee, basic grains, live animals and meat, fishing, sugar, tobacco, wood products and refined oil products. Export subsidies were subsequently distributed across these products proportionally to their share in total exports.

Next, to balance the supply and demand for goods and services in the microeconomic SAM, the production accounts were adjusted by increasing net operating surplus for those activities producing the subsidized export commodities. After these adjustments, the microeconomic SAM was completed and fully balanced.

3. I-O Table Construction for GTAP

Using the information from the 2000 Nicaragua SAM, we proceeded to transform these data into GTAP format (Huff et al., 2000). This section describes the steps followed in this process.

3.1 Make Matrix

Because the GTAP Data Base is set up in a commodity by commodity format, the multi-product (commodity by industry) Make Matrix for Nicaragua had to be converted into a single-product (commodity by commodity) table. We added a column corresponding to the imputed Financial Services (SIFMI) to transform the Make Matrix into a square matrix (40x40). After adding the additional column, we diagonalized the Make Matrix, by moving values of a commodity j across industries i to industry j . That is, we aggregated the product of each of the various industries which produce the same commodity to yield a sector that produces a single commodity. As a consequence, there was no longer room for secondary production in the Nicaraguan matrix.

3.2 Use Matrix

3.2.1 Financial Intermediation Services Indirectly Measured

To start the build up of the Use Matrix, we first merged the values of the Financial Intermediation Services Indirectly Measured (FISIM) with observed intermediate demand for Financial Services in the corresponding row of the Use Matrix. This was done by estimating a vector of shares based on “Net Operating Surplus” (NOS) in Value Added. Next, we adjusted the estimates of net operating surplus by activities/commodities. This procedure assured maintaining accounting consistency of the Use Matrix.

3.2.2 Value Added to ORANIG Factors (Land, Labor, Capital)

The 2000 Nicaragua SAM records remunerations for labor and capital as a) wages and salaries, b) other production taxes, c) mixed income, and d) net operating surplus (profits). Mixed income was proportionally distributed in each industry between wages and salaries (labor) and net operating surplus (capital). Land rents, not recorded

separately in the 2000 SAM, were accounted for by taken part of the consolidated net operating surplus on the basis of fixed shares for capital and land.³

This reallocation of value added was applied only in the case of activities that use natural resources, including agriculture, forestry, fishing, and mining. For manufacturing and service sectors it was assumed no use of natural resources is made and value added was only distributed between labor and capital. Finally, we expanded value added from industries to commodities using the cost shares of the Make matrix, to maintain the same cost structure in the new commodity-by-commodity valued added matrix.

3.2.3 Tax Matrix Construction

The 2000 SAM for Nicaragua identified four types of taxes at the production-commodity levels: a) General Value Tax, non deductible (IGV in Spanish), b) Commodity Taxes (Special Consumption Taxes or IEC in Spanish), c) Import tariffs and other taxes and d) Other Production Taxes. According to the Central Bank of Nicaragua (Banco Central de Nicaragua, 2006), the national account system includes the following taxes:

- Total taxes, except IGV: a tax of selective application for domestic and imported goods. It also includes a 1%-charge on electricity consumption.
- Import taxes: including import tariffs (*Derechos arancelarios a la importación*, DAI), specific consumption taxes (IEC), temporary protection tariffs (*arancel temporal de protección*, ATP) and other taxes (*impuesto de timbres fiscales*, ITF).
- Non-deductible IGV, applied to domestic and imported goods.

For domestic goods and services, taxes are classified as follows:

- The IGV is levied on all sold goods and services. It is applied on the value of the good or service including any related cost that facilitates its selling in the market (that is, financing, installation services, and so on).
- The IEC is basically levied on beverages (spirits, beer, and non-alcoholic beverages), tobacco products, and oil and refined oil products.

For imported goods and services, there are five types of taxes:

- The DAI act as ad-valorem tariffs applied on the c.i.f. value of all imports from outside Central America.

³ Shares of gross fixed capital formation used were the following: 30% for land and 70% for capital. These were provided by Mark Horridge, Center of Policy Studies, Monash University.

- The IEC is an ad-valorem tax on the c.i.f. value of imports, plus other taxes, excluding IGV on imports.
- ATP are also ad-valorem taxes on the c.i.f. value of imports.
- The IGV applies a 15% rate on the c.i.f. value of goods and services (including all taxes mentioned above) except for cement and clinker on which the rate ranges between 0% and 5%.
- Other taxes (ITF) are government fees and rights to import at a rate of 5% over the c.i.f. value. Since July 1997, this tax became unified with the ATP and applied to all items under the Central American Tariff System.

Other production taxes include:

- Municipal taxes on Production: include taxes on sales of goods and services, property taxes, licenses, etc.
- Non-municipal taxes: a 2% tax rate on gross salaries collected by the National Technological Institute (INATEC in Spanish).

Using the data previously described, a Tax Matrix was created by allocating all tax vectors across intermediate and final demand (excluding change in inventories and exports), using a coefficients matrix of shares of intermediate and final demand in total demand by commodity.⁴ Finally, the vector of import tariffs was transformed into a matrix using the coefficients matrix of shares of intermediate and final demand in total demand for commodities.

3.2.4 Use Matrix, with tax (UP), and without taxes (UF)

The Use Matrix was also transformed from a commodity-by-industry matrix into a commodity-by-commodity matrix. To perform this change, we applied commodity shares of total output within the same industry j according to the Make Matrix to distribute values by commodity from industry i to industry j in the Use Matrix. We aggregated each of the various industries which consumed a given commodity x to yield the intermediate use of that commodity, each of the various industries which consumed another given commodity y to yield the intermediate use of that same commodity, and so on. These new sectors have a cost structure that is a share-weighted sum of the cost structure of the parent industries that produce these commodities (in the Make Matrix).

⁴ The original SAM also included direct income tax payments by non-government institutions to the government. These are however of no use in the GTAP setup such that they do not become part of the tax matrix.

To estimate the Use Matrix including taxes (UP), we first incorporated the values of the column vector for “Trade Margins” into the commodity “Trade” of the modified commodity-by-commodity Use Matrix. The same logic was followed for “Transportation Margins” as these were included as part of the commodity “Transportation”. These two adjustments captured margins across commodities, and allowed to maintain the balance between sales and costs. To produce the Use Matrix excluding taxes (UF), we subtracted the values of the tax and tariff matrices from the UP matrix.

3.2.5 Separating domestic and import use

For imports, the 2000 SAM for Nicaragua includes only a row that accounts for total imports by commodity. However, GTAP requires the UP and UF matrices to separate domestic use from import use. To do this, we first estimated a shares matrix of intermediate and final demand use by product (excluding exports, which are allocated entirely into domestic use), which we used to create an import matrix based of the estimated shares. In this shares matrix, for each row of the total Use Matrix, we computed the percentage of the row total allocated to each sector. That is, the total use of a commodity by each activity in intermediate and final demand. This procedure implicitly assumes that imports have the same use pattern as domestic commodities. Though not the best approach (particularly when there is a lot of re-exportation), this was deemed as a good approximation to construct the import matrix considering the data and information available.

The import matrix (including import duties) was estimated using the shares matrix and the vector of imports, by multiplying each commodity total by the appropriate percentage for each sector across intermediate and final demand. That is, an import matrix was created by means of pro-rating the totals across uses, by applying the structure implied by the total Use Matrix. Domestic use (excluding taxes) was estimated by subtracting the import matrix from the UF matrix. As explained before, all exports were included in the domestic Use Matrix as re-exports are not allowed in the GTAP Data Base.

To estimate tax-inclusive (UP) domestic and import use matrices, we first split the matrix of taxes (IGV and other taxes) into domestic and import taxes. This implied first estimating a shares matrix of import use in total use, which was calculated by dividing the values of the import Use Matrix (excluding taxes) by the values in the UF matrix. This share matrix enabled estimation of two tax matrices: one for domestic use and one for import use. These two matrices were subsequently added to the corresponding domestic and import use (tax excluded) to calculate both domestic and import use, tax inclusive (UP).

Finally, the resulting domestic and import tax matrices were subtracted from the matrices of domestic and import use with taxes (UP) to obtain those without taxes (UF).

3.2.6 Output (OP) and Imports, duty free (MF)

To obtain the vector of output of sector i , non-commodity indirect tax included (vector “OP” in GTAP notation), we added the total sum of domestic and imports intermediate use by commodity (column-wise), total value added by commodity, and other production taxes. Finally, to generate a vector of imports by commodity valued free of import duties (vector “MF” in GTAP notation), tariffs were removed from the vector of total imports by commodity (tax excluded).

4. Commodity aggregation and breakdown

The 40 sectors of the SAM for Nicaragua were consolidated into 31 sectors, while maintaining overall accounting consistency. The main purpose of this new commodity aggregation was to map multiple sectors of the Nicaragua SAM to single GTAP sectors. Only *dwellings* (*dwe*) could not be directly mapped to any sector of the Nicaraguan matrix due to a lack of data. Consequently, zero values had to be assigned to this sector.

Upon request from the GTAP Center, the “Textiles” sector was split into the three GTAP sectors: “Textiles”, “Wearing Apparel” and “Leather Products” using shares from similar countries in the region (El Salvador and Guatemala). The shares applied were 33.6% for Textiles, 48.4% for Wearing Apparel and 18.0% for Leather Products.⁵ We assumed that the cost structure of the original “Textile” sector was identical for each of the separate textile sub-sectors. With the disaggregation of the Textile sector into three sub-sectors and the zero account for dwellings there were a total of 34 aggregated sectors (see Table 2A).

Finally, the mapping and sectoral split of the 34 aggregated sectors into the 57 GSC2 sectors was performed at the GTAP Center, using the cost structure of their “GTAP Representative Table” and the agriculture I-O split procedure (Dimaranan and McDougall, 2002, chapter 13). Table 3A shows the mapping from the 34 aggregated sectors to the 57 GTAP sectors.

⁵ The source data from the Central Bank of Nicaragua make a distinction between Textiles & Wearing Apparel and Leather Products. According to Leonel Perez of the Central Bank of Nicaragua, the share of leather products in total textile production is 18.88% in 2000, which is similar to the value assumed here.

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Appendix

Table 1A. Commodity classification and Concordance between Nicaragua I-O Table and ISICr3

No.	Sector	Description	ISIC r3
1	Coffee	Coffee	0111
2	Sugar Cane	Sugar Cane	0111
3	Basic Grains	Corn, beans, rice, sorghum	0111
4	Other Agricultural Products	Other cereals (wheat, barley, oats), vegetables, roots & tubers, fruits, seeds & oil seeds, live plants, tea, cacao	0111
5	Live animals and animal products	Bovine Cattle, pigs, horses, chickens, other animals, milk, eggs, other animal products	012-1511
6	Forestry	Forestry products, natural gums, other forestry products	0111-0112-0200
7	Fishing	Fishing and fish farms	0500
8	Mining	Coal, Crude oil, uranium, metallic minerals; sand, rock and clay extraction, other non-metallic mineral products	10-11-12-13-14
9	Electricity	Generation and distribution of electricity	4010
10	Water	Water treatment and distribution, and sewage	4100-9000
11	Meats and Fish	Production and processing of meat and fish products	1511-1512
12	Sugar	Sugar manufacturing and processing	1532-1542
13	Dairy Products	Manufacturing of dairy products (pasteurized milk, butter, cream and cheese, other dairy products)	1520
14	Other food products	Vegetable oils and fats, milling & bakery products, rice, other food products	15-17
15	Beverages	Manufacturing of beverages (alcoholic, non-alcoholic)	155
16	Tobacco	Tobacco products	1600
17	Textiles, wearing apparel, and leather products	Fibers, fabrics & textiles, wearing apparel, leather, footwear, other leather products	17-18-19
18	Wood and Wood Products	Manufactured wood products	05-20-28-36-74-92-93
19	Paper and Paper Products	Paper and paper products, printing and publishing	21-22-7421
20	Fuels and lubricants	Gas oils, Gasoline, Turbo fuel, Fuel oils, Kerosene, Other petroleum products	23-4010
21	Chemical Products	Manufacturing of chemical products, plastic products and rubber	24-25
22	Glass products and other non-metallic products	Manufacturing of glass products and other non-metallic products	26
23	Metals and metal products	Manufacturing of common metals and metal products (except machinery and equipment)	27-28
24	Machinery and Equipment	Manufacturing of machinery and transport equipment (machinery for general and specific uses, electric equipment, TV, radio, office, calculating & accounting machines, motor vehicles)	22-24-29-30 to 35
25	Construction	Residential and non-residential Construction, bridges, tunnels, ports & airports Construction, other Constructions	45
26	Trade	Retail and wholesale trade	50-51-52
27	Hotels & Restaurants	Hotels & Restaurants Services	5510-5520
28	Transportation	Land, water and air transportation services (passenger and freight), other transportation services	6010-6021-6022

Table 1A. Commodity classification and Concordance between Nicaragua I-O Table and ISICr3

No.	Sector	Description	ISIC r3
29	Mail and telecommunications	Mail and telecommunications	64
30	Financial and insurance services	Financial services, insurance services	63-65-67
31	Real state and housing services	Real state and housing services	70
32	Business Services	Business services	71-72-73-74
33	Public Administration Services	Government services (Government administration, social and community services, social security)	75
34	Private Education	Private education services	80
35	Public Education	Public education services	
36	Private Health	Private social and health services	
37	Public Health	Public social and health services	85
38	Recreation and Other Services	Associations, recreational activities, culture and sports	91-92-93-99
39	Household Services	Household services	9500
40	SIFMI	Imputed Financial Intermediation Services	

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
01			Café oro	01611	Cultivo de café	011
	01-01		Café oro	01611	Cultivo de café	0113
02			Caña de azúcar	01820	Cultivo de caña de azúcar	011
	02-01		Caña de azúcar	01820	Cultivo de caña de azúcar	0111
03			Granos básicos	011-012	Cultivos de granos básicos	011
	03-01		Maíz	01120	Cultivo de maíz	0111
	03-02		Frijol	01220	Cultivo de frijol	0111
	03-03		Arroz granza	01130	Cultivo de arroz	0111
	03-04		Sorgo	01190	Cultivo de sorgo	0111
04			Otros productos agrícolas	011	Cultivo de otros productos agrícolas	0111
	04-01		Otros cereales	011	Cultivo de cereales y otros cultivos	0111
		04-01-01	Trigo	01110	Cultivo de trigo	0111
		04-01-02	Cebada, centeno y avena	01150-01160	Cultivo de cebada, centeno y avena	0111
		04-01-03	Otros cereales (excepto sorgo)	01190	Cultivo de otros cereales (excepto sorgo)	0111
	04-02		Legumbres, raíces y tubérculos comestibles	012	Cultivos de legumbres, raíces y tubérculos comestibles	0111-0112
		04-02-01	Papas	01210	Cultivo de papas	0111
		04-02-02	Arvejas	01220	Cultivo de arvejas	0111
		04-02-03	Otras leguminosas secas (excepto frijol)	01220	Cultivo de otras leguminosas secas (excepto frijol)	0111
		04-02-04	Tomate	01230	Cultivo de tomate	0112
		04-02-05	Cebolla	01230	Cultivo de cebolla	0112
		04-02-06	Repollo	01230	Cultivo de repollo	0112
		04-02-07	Champiñones	01230	Cultivo de champiñones	0112
		04-02-08	Otras legumbres frescas	01230	Cultivo de otras legumbres frescas	0112
		04-02-09	Yuca	01240	Cultivo de yuca	0111
		04-02-10	Quequisque	01240	Cultivo de quequisque	0111
		04-02-11	Otras raíces y tubérculos	01240	Cultivo de otras raíces y tubérculos	0111
	04-03		Frutas	013	Cultivo de frutas	0113
		04-03-01	Banano	01310	Cultivo de banano	0113
		04-03-02	Plátano	01310	Cultivo de plátano	0113
		04-03-03	Naranja	01320	Cultivo de naranja	0113

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
		04-03-04	Cítricos	01320	Cultivo de cítricos	0113
		04-03-05	Uvas	01330	Cultivo de uvas	0113
		04-03-06	Piña	01310	Cultivo de piña	0113
		04-03-07	Mango	01310	Cultivo de mango	0113
		04-03-08	Aguacate	01310	Cultivo de aguacate	0113
		04-03-09	Melón	01340	Cultivo de melón	0113
		04-03-10	Sandía	01340	Cultivo de sandía	0113
		04-03-11	Otras frutas frescas y secas	01310-01340 al 01360	Cultivo de otras frutas frescas y secas	0113
	04-04		Semillas y frutos oleaginosos	014	Cultivos de cereales y otros cultivos oleaginosos	0111
		04-04-01	Soya	01410	Cultivo de soya	0111
		04-04-02	Maní	01420	Cultivo de maní	0111
		04-04-03	Ajonjolí	01430	Cultivo de ajonjolí	0111
		04-04-04	Semilla de algodón	01440	Cultivo de semilla de algodón	0111
		04-04-05	Semillas y frutos oleaginosos n.c.p.	01430-01490	Cultivo de semillas y frutos oleaginosos n.c.p	0111
	04-05		Plantas vivas: flores y materiales vegetales	015-019	Cultivos de horticultura y productos de viveros	0111-0112
		04-05-01	Plantas vivas y materias vegetales (excepto semillas oleaginosas)	01510 al 01540	Cultivo de plantas vivas y materias vegetales	0112
		04-05-02	Algodón desmotado	01921	Cultivo de algodón	0111
		04-05-03	Otros fibras vegetales	01910-01922- 01923-01930- 01940-01990	Cultivo de otras fibras vegetales	0111
		04-05-04	Inversiones café	01510	Nuevas plantaciones de café	0112
		04-05-05	Inversiones en caña de azúcar	01510	Nuevas plantaciones de caña de azúcar	0112
		04-05-06	Inversiones en banano	01510	Nuevas plantaciones de banano	0112
		04-05-07	Inversiones en pasto	01510	Nuevas plantaciones para pasto	0112
		04-05-08	Otros plantíos permanentes cultivados	01510	Cultivos de otros plantíos permanentes	0112
	04-06		Cultivos de plantas bebestibles y especias	016	Cultivos de plantas para preparar bebidas y especias (excepto cultivo de café)	0113
		04-06-01	Té	01612	Cultivo de té	0113

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
05	04-07	04-06-02	Cacao	01614	Cultivo de cacao	0113
		04-06-03	Mate	01613	Cultivo de mate	0113
		04-06-04	Especias elaboradas o sin elaborar	01620	Cultivo de especias	0113
			Tabaco sin elaborar	01700	Cultivo de tabaco	0111
			Otras plantas utilizadas en la fabricación de azúcar (excepto caña de azúcar)	01810	Cultivo de otras plantas utilizadas en la fabricación de azúcar	0111
			Animales vivos y productos animales	021-029	Cría de animales	012-1511
	05-01		Ganado vacuno en pie	02111	Cría de vacunos	0121
	05-02		Porcino en pie	02121	Cría de porcinos	0122
	05-03		Equino y otros	02113	Cría de equinos y otros	0121
	05-04		Aves de corral	02122	Cría de aves de corral	0122
	05-05		Otros animales de criadero	02112-02129	Cría de otros animales n.c.p.	0121-0122
	05-06		Leche sin elaborar	02910	Producción de leche cruda	0121
	05-07		Huevos con cáscaras frescos	02920	Producción de huevos con cáscara frescos	0122
	05-08		Otros productos animales	02930 al 02950-02961 al 02964-02971 al 02974-02980-02990	Producción de otros productos animales	0121-0122-1511
06			Productos de la silvicultura y extracción de madera	01510-031-032-039	Silvicultura, extracción de madera	0111-0112-0200
	06-01		Madera en bruto	031	Silvicultura, extracción de madera	0200
		06-01-01	Troncos de maderas	03110-03120	Extracción de troncos de madera	0200
		06-01-02	Leña	03130	Extracción de leña	0200
		06-01-03	Otros tipos de madera en bruto	03190	Extracción de otros tipos de madera en bruto	0200
	06-02		Gomas naturales	032	Extracción de gomas naturales	0111-0200
	06-03		Otros productos de la silvicultura	039	Extracción de otros productos de la silvicultura	0200
	06-04		Bosques cultivados o mejorados	01510	Silvicultura	0112
07			Pescado y productos de la pesca	041-042-049	Pesca y granjas piscícolas	0500
	07-01		Pescado frescos	04120	Captura de pescado	0500

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
08	07-02		Crustáceos y otros invertebrados acuáticos	04210-04220-04230	Captura y cultivo de crustáceos	0500
		07-02-01	Camarón sin congelar	04210	Captura y cultivo de camarón	0500
		07-02-02	Langosta sin congelar	04210	Captura de langosta	0500
		07-02-03	Otros invertebrados acuáticos (excepto camarón y langosta)	04210-04220-04230	Captura de otros invertebrados acuáticos	0500
	07-03		Otros productos acuáticos (conchas, esponjas, etc.)	04110-049	Captura de otros productos acuáticos	0500
			Productos mineros	11-12-13-14-15-16	Explotación de minas y canteras	10-11-12-13-14
	08-01		Hulla, lignito y turba	11	Extracción de carbón y lignito; extracción de turba	1010 al 1030
	08-02		Petróleo crudo	12	Extracción de petróleo crudo	1110
	08-03		Minerales de uranio y torio	13	Extracción de minerales de uranio y torio	1200
	08-04		Minerales metálicos	14	Extracción de minerales metalíferos	1310-1320
		08-04-01	Oro	14240	Extracción de oro	1320
		08-04-02	Plata	14240	Extracción de plata	1320
		08-04-03	Otros minerales metálicos	14100-14210 al 14230-14290	Extracción de otros minerales metálicos	1310-1320
	08-05		Piedra, arena, arcilla y otros	15	Explotación de piedra, arena, arcilla y otros	1410- 142
		08-05-01	Rocas y materiales utilizados directamente en la construcción	15110 al 15130-15310-15320	Extracción de piedra, arena y arcilla	1410
		08-05-02	Piedra caliza	15200	Extracción de caliza	1410
		08-05-03	Otros minerales de uso industrial	15330-15200-15400	Explotación de otros minerales de uso industrial	1410-1429
	08-06		Otros minerales	16	Explotación de otros minerales no metálicos	1410-142
		08-06-01	Minerales químicos	161	Extracción de minerales no metálicos	1421
		08-06-02	Evaporitas (sal)	162	Extracción de sal	1422
		08-06-03	Piedras preciosas y otros minerales n.c.p.	163	Explotación de otras minas y canteras n.c.p.	1410-1429
09			Energía eléctrica	17-88700	Suministro de electricidad	4010
	09-01		Energía eléctrica generada	17100	Generación de energía eléctrica	4010
	09-02		Energía eléctrica distribuida	88700	Distribución de energía eléctrica	4010

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
10			Agua potable y alcantarillado sanitario	18-9401	Captación, depuración y distribución de agua	4100-9000
	10-01		Agua potable	18	Captación, depuración y distribución de agua	4100
	10-02		Alcantarillado sanitario	9401	Eliminación de aguas residuales	9000
11			Carnes y pescados	2111 al 2114- 2121 al 2126- 88411	Elaboración y procesamiento de productos cárnicos y de la pesca	1511-1512
	11-01		Carnes y despojos comestibles de ganado bovino, porcino, ovino, caprino, etc. frescos, refrigerados o congelados	2111-2112	Producción, procesamiento de carnes y productos cárnicos	1511
		11-01-01	Carnes y despojos comestibles de ganado bovino	21111-21112- 21119	Producción, procesamiento de carne bovina	1511
		11-01-02	Carnes y despojos comestibles porcino	21113-21114- 21119	Producción, procesamiento de carne porcina	1511
		11-01-03	Otras carnes y despojos comestibles (excepto bovino y porcino)	21115 al 21119- 21129	Producción, procesamiento de otras carnes y despojos comestibles (excepto bovino y porcino)	1511
	11-02		Carnes y despojos comestibles de aves frescos, refrigerados o congelados	21121- 21122	Producción, procesamiento de carne de aves	1511
	11-03		Filetes de pescados, crustáceos y otros productos de pescados	21210 al 21260	Elaboración y conservación de pescado y productos de pescado	1512
	11-04		Otros productos cárnicos	21131-21132- 21140-21291- 21299	Producción, procesamiento y conservación de otros productos cárnicos	1511-1512
	11-05		Servicios de matanza	88411	Servicio de matanza	15
12			Azúcar	232-235	Elaboración de azúcar	1532-1542
	12-01		Azúcar de caña	23510-23520- 23530	Elaboración de azúcar de caña	1542
	12-02		Melaza	23540	Elaboración de melaza	1542
	12-03		Otros azúcares (excepto azúcar de caña)	2321-23510 al 23530	Elaboración de otros azúcares (excepto de caña)	1532-1542

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
13			Lácteos	22	Elaboración de productos lácteos	1520
	13-01		Leche pasteurizada	22110	Elaboración de leche pasteurizada	1520
	13-02		Mantequilla, crema y quesos	22120-22940- 22950	Elaboración de mantequilla, crema y quesos	1520
	13-03		Otros lácteos	22910 al 22930- 22960 al 22990	Elaboración de otros productos lácteos	1520
14			Otros alimentos y productos de origen industrial	01-21-23- 88411	Elaboración de otros alimentos y productos industriales	15-17
	14-01		Aceites, grasa vegetal y animal	216	Elaboración de productos alimenticios, almidones y preparación de hilaturas	151-1711
		14-01-01	Aceite Vegetal	21630 al 21670	Elaboración de aceite vegetal	1514
		14-01-02	Manteca Vegetal	21690	Elaboración de manteca vegetal	1514
		14-01-03	Otras grasas vegetales y aceites y grasas animales	21611-21612- 21620-21680- 21690	Elaboración de grasas de origen animal y otras grasas vegetales, extracción de grasa de lana	1511-1514-1711
	14-02		Productos de molinería y almidones	01-21-23	Elaboración de productos de molinería, y de otros productos alimenticios	1514-1531 al 1533- 1541-1544
		14-02-01	Productos de panadería	234	Elaboración de productos de panadería	1541
		14-02-02	Harina de trigo y otras	23110 al 23150	Elaboración de harina de trigo y otras	1531
		14-02-03	Preparados del tipo utilizados para la alimentación de animales	233 - 21810 - 21820	Elaboración de alimentos preparados para animales	1514 - 1533
		14-02-04	Arroz oro	01140-23160	Elaboración de arroz oro	1531
		14-02-05	Otros productos preparados a base de harina y almidones	23170-23180- 232-237	Elaboración de otros productos preparados a base de harina y almidones	1531-1532-1544
	14-03		Otros productos alimenticios n.c.p.	213- 214- 215- 2170-2183-236- 2391-2399	Elaboración de otros productos alimenticios n.c.p	1513-1514-1543- 1549
	14-04		Beneficios	88411	Procesamiento de café	15
15			Bebidas	241al 244	Elaboración de bebidas	155
	15-01		Alcohol etílico y otros alcoholes	24110 al 24130	Destilación, rectificación y mezcla de bebidas alcohólicas, producción de alcohol etílico	1551
	15-02		Vinos	242	Elaboración de vinos	1552
	15-03		Licores de malta y malta	243	Elaboración de licores de malta y malta	1553

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
	15-04		Aguas naturales, gaseosas	244	Elaboración de bebidas no alcohólicas; producción de aguas minerales	1554
16			Tabaco	250	Elaboración de productos de tabaco	1600
17			Hilados, tejidos, prendas de vestir, productos de cuero y calzado	26-27-28-29	Fabricación de textiles, vestuario, cuero y calzado	17-18-19
	17-01		Hilados e hilos, tejidos de fibra textil	26	Preparación, tejedura e hilatura de productos textiles	1711
	17-02		Artículos textiles (excepto prendas de vestir)	27	Fabricación de artículos confeccionados de materiales textiles (excepto prendas de vestir)	1721 al 1723- 1729
	17-03		Tejidos de punto o ganchillo, prendas de vestir	28	Fabricación de tejidos y prendas de vestir	1730- 1810- 1820
	17-04		Cuero y productos de cuero, calzado	29	Preparación de cuero y fabricación de artículos de cuero y calzado	1911- 1912- 1920
	17-05		Zonas Francas	28-29	Fabricación de prendas de vestir y calzado	1730-1920
18			Productos de madera, muebles y otros productos transportables	31-38	Aserrado de madera, fabricación de productos de madera y otros productos transportables	05-20-28-36-74-92-93
	18-01		Productos de madera	31	Aserrado y acepilladura de madera; fabricación de productos de madera	2010- 2021 al 2023-2029
		18-01-01	Madera aserrada	31100-31210	Aserrado y acepilladura de madera	2010
		18-01-02	Otros productos de madera	31220-31230-313 al 317-319	Fabricación de productos de madera	2010-2021-2022-2023-2029
	18-02		Muebles y otros productos transportables	38	Fabricación de muebles y otros productos transportables	0500-36-2811-7494-9211-9214-9302
19			Pasta de papel, papel y productos de papel, impresos y artículos análogos	32	Fabricación de papel y productos de papel, impresos y artículos análogos	21-22-7421
	19-01		Pasta de papel, papel y cartón	321	Fabricación de papel y productos de papel	2101-2102-2109
	19-02		Impresos y artículos análogos	322 al 327	Fabricación de impresos y artículos análogos	2211-2212- 2219-2221-2222-7421
20			Productos de petróleo refinado	33	Fabricación de productos de la refinación del petróleo	23-4010

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
	20-01		Gasolina	33310	Fabricación de gasolina	2320
	20-02		Diesel	33350	Fabricación de diesel	2320
	20-03		Keroturbo	33320	Fabricación de keroturbo	2320
	20-04		Fuel oil	33370	Fabricación de fuel oil	2320
	20-05		LPG (gas licuado)	33410	Fabricación de LPG (gas licuado)	2320
	20-06		Asfalto	33500	Fabricación de asfalto	2320
	20-07		Lubricantes y solventes	33330-33380	Fabricación de lubricantes y solventes	2320
	20-08		Otros productos de petróleo (excepto asfalto)	331-332-333-33420-33500-336-337	Fabricación de otros productos de petróleo (excepto asfalto)	2310 al 2330-4010
21			Productos químicos básicos y elaborados, productos de caucho y plástico	34-35-36	Fabricación de sustancias y productos químicos y productos de caucho y plástico	24-25
	21-01		Productos químicos básicos	34	Fabricación de productos químicos	2411 al 2413-2421-2424-2429
	21-02		Otros productos químicos	35	Fabricación de otros productos químicos	2422 al 2424-2429-2430
	21-03		Productos de caucho y productos de plástico	36	Fabricación de productos de caucho y plástico	2511 - 2519- 2520
22			Vidrio y productos de vidrio y otros productos no metálicos n.c.p.	37	Fabricación de productos de vidrio y otros productos no metálicos	26
	22-01		Vidrio	371	Fabricación de vidrio y productos de vidrio	2610
	22-02		Artículos de cerámica no estructurales	372	Fabricación de artículos de cerámica no estructurales	2691
	22-03		Cemento, cal y yeso	374	Fabricación de cemento, cal y yeso	2694
	22-04		Otros productos no metálicos	373- 375-376-379	Fabricación de otros productos no metálicos n.c.p.	2692- 2693-2695-2696-2699
23			Metales comunes y productos metálicos elaborados	41-42	Fabricación de metales comunes y productos elaborados de metal (excepto maquinaria y equipo)	27-28
	23-01		Metales comunes	41	Fabricación de metales comunes	2710- 2720
	23-02		Productos metálicos elaborados	42	Fabricación de productos elaborados de metal	2811 al 2813-2893-

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
						2899
24			Maquinaria y equipo de transporte	4	Fabricación de maquinaria y equipo de transporte	22-24-29-30 al 35
	24-01		Maquinaria para usos generales	43	Fabricación de maquinaria para usos generales	2911 al 2915-2919-3410-3430-3530
	24-02		Maquinaria para usos específicos	44	Fabricación de maquinaria para usos específicos	2899-2915-2921 al 2930
	24-03		Maquinaria de oficina, contabilidad e informática	45	Fabricación de maquinaria de oficina, contabilidad e informática	3000
	24-04		Maquinaria y aparatos eléctricos	46	Fabricación de maquinaria y aparatos eléctricos	3110 al 3150-3190
	24-05		Equipos y aparatos de video, televisión y comunicaciones	47	Fabricación de equipos y aparatos de video, televisión y comunicaciones	2213-2429-32-3210 al 3230
	24-06		Aparatos médicos, instrumentos ópticos de precisión y relojes	48	Fabricación de aparatos médicos, instrumentos ópticos de precisión y relojes	2429-3311 al 3313-3320-3330
	24-07		Equipos de transporte	49	Fabricación de equipos de transporte	3410 al 3430- 3511-3512-3520-3530-3591-3592-3599
25			Construcciones	51	Construcción	45
	25-01		Trabajos de construcción	51	Trabajos de construcción	45
		25-01-01	Reparaciones residenciales	51	Reparaciones residenciales	45
		25-01-02	Reparaciones no residenciales	51	Reparaciones no residenciales	45
		25-01-03	Reparaciones de obras civiles	51	Reparaciones de obras civiles	45
	25-02		Construcciones de edificios residenciales	5211	Construcción de edificios residenciales	4520
		25-02-01	Urbano	5211	Construcción de edificios residenciales urbanos	4520
		25-02-02	Rural	5211	Construcción de edificios residenciales rurales	4520
	25-03		Construcciones de edificios no residenciales	5212	Construcción de edificios no residenciales	4520
		25-03-01	Pública	5212	Construcción de edificios no residenciales públicos	4520
		25-03-02	Privada	5212	Construcción de edificios no residenciales privados	4520

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
26	25-04		Trabajos y obras de ingeniería civil	522	Obras de ingeniería civil	4520
		25-04-01	Carreteras, calles, caminos y pistas de aterrizaje	5221	Obras de ingeniería civil	4520
		25-04-02	Vías de navegación, puertos, represas y otras	5223	Obras de ingeniería civil	4520
		25-04-03	Tuberías y cables urbanos	5224	Obras de ingeniería civil	4520
		25-04-04	Instalaciones deportivas y recreativas	5227	Obras de ingeniería civil	4520
		25-04-05	Líneas de comunicación, radio y televisión	5224	Obras de ingeniería civil	4520
		25-04-06	Cercas	5229	Obras de ingeniería civil	4520
	26-01		Comercio, reparaciones de vehículos y productos de recuperación	61-62-63-39	Comercio al por mayor y al por menor, reparación de vehículos y artículos personales y domésticos	50-51-52
			Servicios de Comercio	61-62-63	Comercio al por mayor y al por menor	50-51-52
						5010-5110-5121-5122-5131-5139-5141 al 5143-5149-5150
		26-01-01	Servicios de Comercio al por mayor	61-62	Comercio al por mayor	5010-5030-5050-5220-5231 al 5234-5239
		26-01-02	Servicios de Comercio al por menor	61-63	Comercio al por menor	5020-5040
		26-02	Servicios de mantenimiento y reparación de automotores	61120-61220	Mantenimiento y reparación de vehículos automotores	5260
		26-03	Servicios de reparación de artículos personales y domésticos	633	Reparación de artículos personales y domésticos	5510-5520
27	26-04		Desperdicios y desechos	39		
			Servicios de hoteles, bares y restaurantes	64	Hoteles y restaurantes	5510
	27-01		Servicios de hoteles	64	Hoteles	5520
28	27-02		Servicios de bares y restaurantes	64	Restaurantes	60
			Servicios de transporte	71	Transporte	6010- 6021-6022
	28-01		Servicios de transporte terrestre de	71	Transporte de pasajeros por vía terrestre	

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
			pasajeros			
		28-01-01	Transporte urbano	71	Transporte de pasajeros por vía terrestre	6021
		28-01-02	Transporte suburbano	71	Transporte de pasajeros por vía terrestre	6021
		28-01-03	Transporte interurbano troncal y secundario	71	Transporte de pasajeros por vía terrestre	6010-6021
		28-01-04	Transporte intermunicipal	71	Transporte de pasajeros por vía terrestre	6010-6021
		28-01-05	Transporte rural	71	Transporte de pasajeros por vía terrestre	6021-6022
		28-01-06	Transporte de taxis	71	Transporte de pasajeros por vía terrestre	6022
	28-02		Servicios de transporte terrestre de carga	71	Transporte de carga por vía terrestre	6010- 6023
	28-03		Servicios de transporte acuático	72	Transporte por vía acuática	6110-6120
		28-03-01	Servicios de transporte acuático de pasajeros	72	Transporte de pasajeros por vía acuática	6110-6120
		28-03-02	Servicios de transporte acuático de carga	72	Transporte de carga por vía acuática	6110-6120
	28-04		Servicios de transporte aéreo	73	Transporte por vía aérea	6210 - 6220
		28-04-01	Transporte aéreo internacional	73	Transporte aéreo internacional	6210 - 6220
		28-04-02	Transporte aéreo nacional	73	Transporte aéreo nacional	6210 - 6220
	28-05		Servicios de transporte complementarios y auxiliares	74	Actividades de transporte complementarias y auxiliares y agencias de viajes	6301-6303-6304
		28-05-01	Aeropuertos	74	Actividades de transporte complementarias	6303
		28-05-02	Puertos	74	Actividades de transporte auxiliares de carga	6301
		28-05-03	Agencias de viajes	74	Actividades de agencias de viajes	6304
29			Servicios de correos y comunicaciones	75	Comunicaciones	64
	29-01		Servicios postales y de correos	751	Actividades postales y de correos	6411- 6412
	29-02		Servicios de comunicaciones	752	Telecomunicaciones	6420
	29-03		Servicios de cable	753	Telecomunicaciones (cable)	6420
30			Servicios de intermediación financiera y servicios conexos	74-81	Intermediación financiera y auxiliares	63-65-67
	30-01		Servicios de intermediación financiera	74-8111-8112-8113-8119-813	Actividad de intermediación financiera y auxiliares (excepto seguros y pensiones)	6302-6511-6519-6591-6592-6599-6711-6712-6719

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Div.	Group	Class	Products	CCP	Activities	ISICr3
31		30-01-01	Banco Central	8111	Banca Central	6511
		30-01-02	Bancos Comerciales	8111	Otros tipos de intermediación monetaria	6519
		30-01-03	Otro tipo de intermediación financiera	8112-8113-8119	Otros tipos de intermediación financiera	6591-6592-6599
		30-01-04	Actividades auxiliares de intermediación financiera	74-813	Actividades auxiliares de intermediación financiera, almacenamiento y depósito	6302-6711-6712-6719
	30-02		Servicios de seguros	812	Financiación de planes de seguros y pensiones (excepto los planes de seguridad social de afiliación obligatoria)	6601 al 6603
			Servicios inmobiliarios y alquileres de vivienda	82	Actividades inmobiliarias y de alquiler	70
	31-01		Servicios inmobiliarios relativos a bienes raíces propios o arrendados	821	Actividades inmobiliarias de bienes raíces propios o arrendados	7010
		31-01-01	Alquileres de bienes raíces residenciales	821	Actividades de alquiler de bienes raíces residenciales	7010
		31-01-02	Alquileres de bienes raíces no residenciales	821	Actividades de alquiler de bienes raíces no residenciales	7010
	31-02		Servicios inmobiliarios a comisión o por contrato	822	Actividades inmobiliarias a cambio de una retribución o por contrato	7020
32			Servicios empresariales	83-84-85-86-87	Actividades empresariales	71-72-73-74
	32-01		Servicios de arrendamiento o alquileres (excepto bienes raíces)	831-832	Alquiler de maquinaria y equipo sin operarios y de efectos personales y enseres domésticos	7111 al 7113-7121 al 7123-7129 al 7130
	32-02		Servicios de informática y conexos	84	Informática y actividades conexas	7210 al 7250-7290
	32-03		Servicios de investigación y desarrollo	85	Investigación y desarrollo	73-7310- 7320
	32-04		Servicios jurídicos de contabilidad, auditoría, tenuría de libros y otros	86	Actividades: jurídicas, contabilidad, auditoría, tenuría de libros y otras	7411 al 7414-7421-7422
	32-05		Servicios comerciales	87	Publicidad y actividades empresariales n.c.p.	7430-7491 al 7495-7499
33			Servicios de administración pública	91	Administración pública y defensa	75
	33-01		Servicios administrativos colectivos del gobierno	91	Administración del estado, prestación de servicios a la comunidad en general y seguridad social de afiliación obligatoria	7511 al 7514-7521 al 7523-7530

Table2A. Nicaragua's Product and Activity Classification (in Spanish), and Concordance with ISICr3

Div.	Group	Class	Products	CCP	Activities	ISICr3
	33-02		Servicios de saneamiento	91	Regulación de los servicios de saneamiento	7512
	33-03		Servicios administrativos de actividades turísticas	91	Regulación de servicios turísticos	7513
	33-04		Servicios administrativos de actividades recreativas y culturales	91	Regulación de servicios recreativos y culturales	7512
34			Servicios de enseñanza	92	Enseñanza	80
	34-01		Servicios de enseñanza de mercado	92	Enseñanza de mercado	8010-8021- 8022-8030-8090
	34-02		Servicios de enseñanza de no mercado	92	Enseñanza de no mercado	8010-8021- 8022-8030-8090
35			Servicios sociales y de salud	93	Actividades de servicios sociales y de salud	85
	35-01		Servicios sociales y de salud de mercado	93	Actividades de servicios sociales y de salud de mercado	8511- 8512- 8519-8520-8531-8532
	35-02		Servicios sociales y de salud de no mercado	93	Actividades de servicios sociales y de salud de no mercado	8511- 8512- 8519-8520-8531-8532
36			Servicios de asociaciones y esparcimiento y otros servicios		Otras actividades de servicios comunitarios, sociales y personales	91-92-93-99
	36-01		Servicios de asociaciones	95	Actividades de asociaciones n.c.p.	9111-9112-9120-9191-9192-9199
	36-02		Servicios de esparcimiento, culturales y deportivos	96	Actividades de esparcimiento, culturales y deportivas	9211 al 9214-9219-9220-9231 al 9233-9241-9249
	36-03		Otros servicios (incluye ISFLH)	97-99	Otras actividades de servicios (incluye ISFLH)	9301 al 9303-9309-9900
37			Servicios domésticos	98	Actividades de servicios domésticos	9500

Table 3A. Commodity Aggregation of Nicaragua's Sectors

No. Aggregated Sectors (34)	Original Sectors (40)	No.
1 Coffee	Coffee	1
2 Sugar cane	Sugar Cane	2
3 Basic Grains	Basic Grains	3
4 Other agricultural products	Other agricultural products	4
5 Live animals and animal products	Live animals and animal products	5
6 Forestry	Forestry	6
7 Fishing	Fishing	7
8 Mining	Mining	8
9 Meat and fish products	Meat and fish products	11
10 Dairy products	Dairy products	13
11 Sugar	Sugar	12
12 Other food products	Other food products	14
13 Beverages and Tobacco	Beverages	15, 16
	Tobacco	
14 Textile products	Textiles, wearing apparel, and leather products	17
15 Wearing apparel	Textiles, wearing apparel, and leather products	17
16 Leather products	Textiles, wearing apparel, and leather products	17
17 Wood and wood products	Wood and wood products	18
18 Paper products	Paper products	19
19 Fuels and lubricants	Fuels and lubricants	20
20 Chemical products	Chemical products	21
21 Glass products and other non-metallic products	Glass products and other non-metallic products	22
22 Metals and metal products	Metals and metal products	23
23 Machinery and equipment	Machinery and equipment	24
24 Electricity	Electricity	9
25 Water	Water	10
26 Construction	Construction	25
27 Trade; restaurants & hotel services	Trade	26, 27
	Restaurant & hotel services	
28 Transportation	Transportation	28
29 Mail and telecommunications	Mail and telecommunications	29
30 Financial and insurance services	Financial and insurance services	30, 40
	FISIM	
31 Business services	Business Services	31, 32
	Real state and housing services	
32 Public administration, public & private education, public & private social and health services	Public Administration Services	33, 34,
	Private Education	35, 36,
	Public Education	37
	Private Health	
	Recreation and Other Services	
33 Recreation and other services	Recreation and Other Services	38, 39
	Domestic services	
34 Dwellings ¹	N/A	N/A

¹ Added as zeros in the new expanded I-O table.

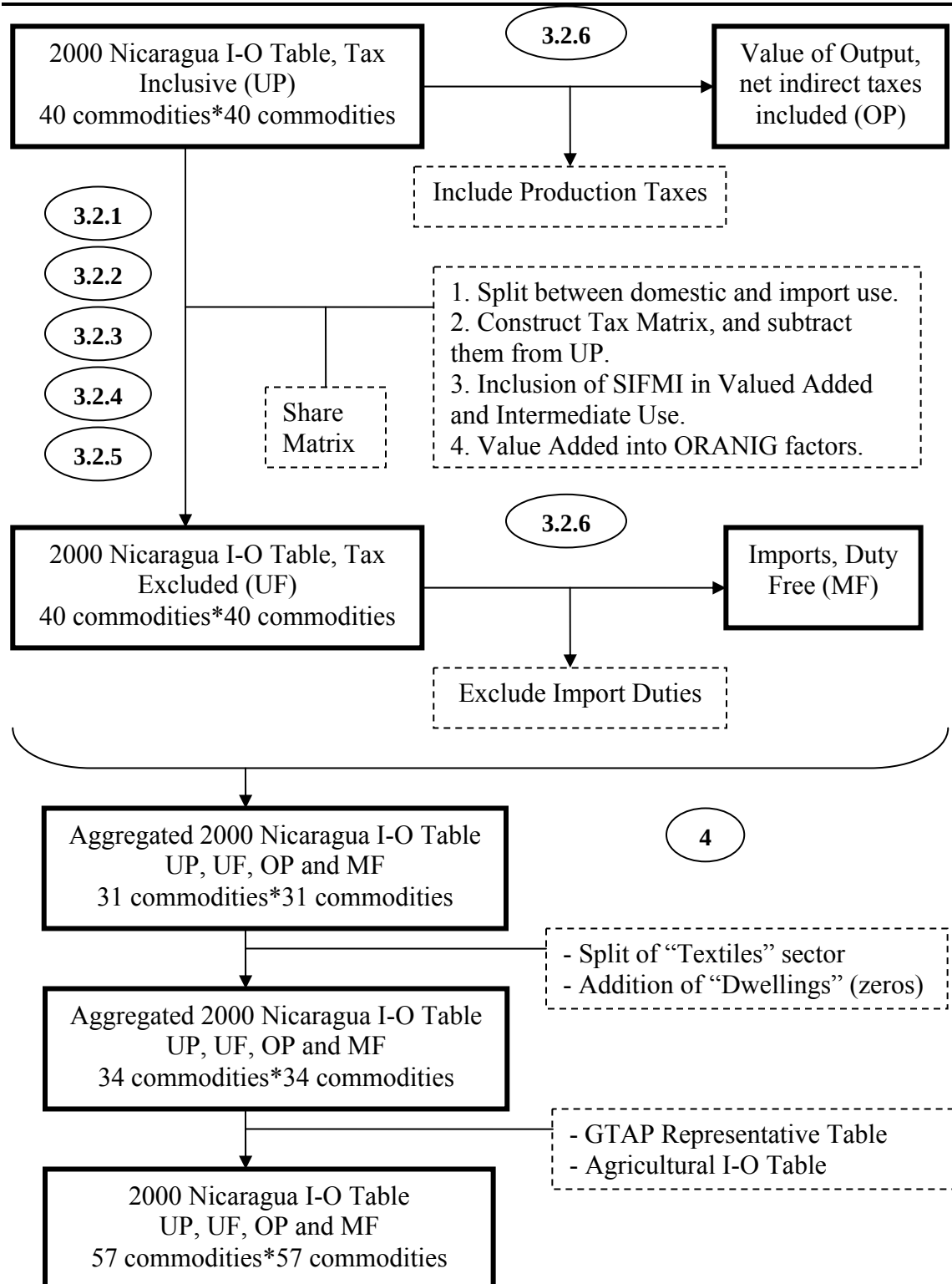
Table 4A. Concordance between GSC2 Sectors and Nicaragua I-O table

GSC2 No.	GSC2 Code	GSC2 Description	Nicaragua Commodity Name	Nicaragua Commodity No.
1	pdr	Paddy rice	Basic Grains	3
2	wht	Wheat	Basic Grains	3
3	gro	Cereal grains nec	Basic Grains	3
4	v_f	Vegetables, fruit, nuts	Other Agricultural Products	4
5	osd	Oil seeds	Other Agricultural Products	4
6	c_b	Sugar cane, sugar beet	Sugar Cane	2
7	pfb	Plant-based fibers	Other Agricultural Products	4
8	ocr	Crops nec	Coffee	1
9	ctl	Cattle, sheep, goats, horses	Live Animals and Animal Products	5
10	oap	Animal products nec	Live Animals and Animal Products	5
11	rmk	Raw milk	Live Animals and Animal Products	5
12	wol	Wool, silk-worm cocoons	Live Animals and Animal Products	5
13	for	Forestry	Forestry	6
14	fsh	Fishing	Fishing	7
15	col	Coal	Mining	8
16	oil	Oil	Mining	8
17	gas	Gas	Mining	8
18	omn	Minerals nec	Mining	8
19	cmt	Meat: cattle, sheep, goats, horse	Meat and Fish	9
20	omt	Meat products nec	Meat and Fish	9
21	vol	Vegetable oils and fats	Other Food Products	12
22	mil	Dairy products	Dairy products	10
23	pcr	Processed rice	Other Food Products	12
24	sgr	Sugar	Sugar	11
25	ofd	Food products nec	Other Food Products	12
26	b_t	Beverages and tobacco products	Beverages and Tobacco	13
27	tex	Textiles	Textile products	14
28	wap	Wearing apparel	Wearing apparel	15
29	lea	Leather products	Leather products	16
30	lum	Wood products	Wood and Wood Products	17
31	ppp	Paper products, publishing	Paper and Paper Products	18
32	p_c	Petroleum, coal products	Fuels and lubricants	19
33	crp	Chemical, rubber, plastic prods	Chemical Products	20
34	nmm	Mineral products nec	Glass products and other non-metallic products	21
35	i_s	Ferrous metals	Metals and metal products	22
36	nfm	Metals nec	Metals and metal products	22
37	fmp	Metal products	Metals and metal products	22
38	mvh	Motor vehicles and parts	Machinery and Equipment	23
39	otn	Transport equipment nec	Machinery and Equipment	23
40	ele	Electronic equipment	Machinery and Equipment	23
41	ome	Machinery and equipment nec	Machinery and Equipment	23
42	omf	Manufactures nec	Machinery and Equipment	23
43	ely	Electricity	Electricity	24
44	gdt	Gas manufacture, distribution	Electricity	24
45	wtr	Water	Water	25
46	cns	Construction	Construction	26

Table 4A. Concordance between GSC2 Sectors and Nicaragua I-O table

GSC2 No.	GSC2 Code	GSC2 Description	Nicaragua Commodity Name	Nicaragua Commodity No.
47	trd	Trade	Trade; Restaurants & Hotel Services	27
48	otp	Transport nec	Transportation	28
49	wtp	Sea transport	Transportation	28
50	atp	Air transport	Transportation	28
51	cmn	Communication	Mail and telecommunications	29
52	ofi	Financial services nec	Financial and Insurance Services	30
53	isr	Insurance	Financial and Insurance Services	30
54	obs	Business services nec	Business Services	31
55	ros	Recreation and other services	Recreation and Other Services	33
56	osg	PubAdmin/Defence/Health/Educ at	Public Administration, Public & Private Education, Public & Private Social and Health Services	32
57	dwe	Dwellings	Real State and Renting Services	34

Figure 1A. Process of creating the Nicaragua's I-O table for the GTAP Data Base



Note: Circled numbers represent the number of the section of this technical note where the corresponding procedure is explained in more detail.