

Colombia

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1. Introduction

This document describes the procedures used to obtain an updated input-output matrix for Colombia, which were previously provided to GTAP by Echavarría and Arbeláez (1998), Guerrero (2002) and Perdomo (2006, 2008). With these efforts, it has been possible to continue with an updated database, and thus to maintain the pillars of the CGE models for analysis of trade liberalization and other trade reforms, one of these models is the *Multicounty* developed by Light and Rutherford (2003) which is based on the updated GTAP database and is used by the Colombian National Planning Department –Directorate of Economic Studies (DNP-DEE).

The Colombian National Accounts used by Perdomo (2008) for GTAP v7 was based on the base-year 2000, but Colombia has now updated the base year; here we present an updated table that uses 2005 as the base year.

2. Procedure

The input-output matrix is based on the information for the year 2007 provided by the National Administrative Department of Statistics (DANE), which is in charge of building Supply and Use tables in an industry-by-commodity framework. Likewise, the DANE recently has built an input-output matrix for the base-year 2005 in a commodity-by-commodity framework.

However, the DANE structure is developed only for 61 activities corresponding to DANE 2-digits level, and there is no one-to-one match between DANE 2-digits and the GTAP Sectoral Classification, this is due mostly to the fact that detailed agricultural disaggregation is not available in DANE input-output tables.

Consequently, the problem is solved using the sectoral detail that arises from the DANE methodology for the base-year 2005, which includes intermediate consumption for agricultural sectors that are not presented in the DANE-input-output tables. In this way, then, we can split agriculture into the input-output framework in pursuit to get an agricultural classification containing DANE-sectors at the 6-digits level, and then the RAS procedure is utilized for the year 2007.

The characteristics of the source of information are presented next:

- Supply and Use Matrix with 61 activities and 369 products.
- A Use matrix at purchasers' prices.
- A Supply matrix at basic prices.
- The Supply table and the use table are expressed in billions of current pesos.
- Margins by product.
- A value added by sector.

- Production taxes and subsidies by sector and by product.
- A Use Matrix discriminated for both domestic and imported products base-year 2005, valued at basic prices.

Since the Use Matrix discriminated for both domestic and imported products and is only available for the base-year 2005, then it is balanced for the year 2007 by using the RAS procedure.

The description for Colombia of the disaggregation is as follows:

Description for Colombia	GTAP-Code	GTAP-Description
Paddy rice	pdr	Paddy rice
Wheat	wht	Wheat
Maize (corn)	gro	Cereal grains nec
Barley	gro	Cereal grains nec
Sorghum, Rye, oats and Other cereals	gro	Cereal grains nec
Potatoes	v_f	Vegetables, fruit, nuts
Leguminous vegetables, fresh or dried	v_f	Vegetables, fruit, nuts
Tomatoes	v_f	Vegetables, fruit, nuts
Vegetables, fresh or chilled	v_f	Vegetables, fruit, nuts
Cassava (yuca)	v_f	Vegetables, fruit, nuts
Other vegetables, roots and tubers	v_f	Vegetables, fruit, nuts
Bananas	v_f	Vegetables, fruit, nuts
Plantains	v_f	Vegetables, fruit, nuts
Oranges, mandarins, lemons and other citrus fruits	v_f	Vegetables, fruit, nuts
Other fruits and nuts fresh	v_f	Vegetables, fruit, nuts
Oil palm	osd	Oil seeds
Soya beans	osd	Oil seeds
Oil seeds n.e.c. and oleaginous fruit	osd	Oil seeds
Sugar cane	c_b	Sugar cane, sugar beet
Cotton	pfb	Plant-based fibers
Fique	pfb	Plant-based fibers
Coffee	ocr	Crops nec
Living plants; cut flowers and flower buds; flower seeds and fruit seeds; vegetable seeds	ocr	Crops nec
Cocoa beans	ocr	Crops nec
Beverages and spice crops	ocr	Crops nec
Unmanufactured tobacco	ocr	Crops nec
Plants and parts of plants used primarily in perfumery, in pharmacy or similar purpose	ocr	Crops nec
Growing of palm oil	ocr	Crops nec
Growing of sugar cane	ocr	Crops nec
Growing of fruits	ocr	Crops nec
Other crops	ocr	Crops nec
Aerial application of pesticides (crop dusting) or fertilizer	ocr	Crops nec

Cotton ginning	ocr	Crops nec
Other agricultural services	ocr	Crops nec
Hulled coffee	ocr	Crops nec
Bovine cattle, sheep and goats, horses	ctl	Bovine cattle, sheep and goats, horses
Animal products n.e.c	oap	Animal products nec
Raw milk	rmk	Raw milk
Wool, silk-worm cocoons	wol	Wool, silk-worm cocoons
Forestry	for	Forestry
Fishing	fsh	Fishing
Coal	col	Coal
Oil	oil	Oil
Gas	gas	Gas
Minerals n.e.c	omn	Minerals nec
Bovine cattle, sheep and goat, horse meat products	cmt	Bovine cattle, sheep and goat, horse meat products
Meat products n.e.c	omt	Meat products nec
Vegetable oils and fats	vol	Vegetable oils and fats
Dairy products	mil	Dairy products
Processed rice	pcr	Processed rice
Sugar	sgr	Sugar
Panela	sgr	Sugar
Food products n.e.c	ofd	Food products nec
Coffee products	ofd	Food products nec
Beverages and tobacco products	b_t	Beverages and tobacco products
Textiles	tex	Textiles
Wearing apparel	wap	Wearing apparel
Leather products	lea	Leather products
Wood products	lum	Wood products
Paper products, publishing	ppp	Paper products, publishing
Petroleum, coal products	p_c	Petroleum, coal products
Chemical, rubber, plastic products	crp	Chemical, rubber, plastic products
Mineral products n.e.c	nmm	Mineral products nec
Ferrous metals	i_s	Ferrous metals
Metals n.e.c	nfm	Metals nec
Metal products	fmp	Metal products
Motor vehicles and parts	mvh	Motor vehicles and parts
Transport equipment n.e.c	otn	Transport equipment nec
Electronic equipment	ele	Electronic equipment
Machinery and equipment n.e.c	ome	Machinery and equipment nec
Manufactures nec	omf	Manufactures nec
Electricity	ely	Electricity
Gas manufacture, distribution	gdt	Gas manufacture, distribution

Water	wtr	Water
Construction	cns	Construction
Civil Construction Works	cns	Construction
Trade	trd	Trade
Transport n.e.c	otp	Transport nec
Water transport	wtp	Water transport
Air transport	atp	Air transport
Communication	cmn	Communication
Financial services n.e.c	ofi	Financial services nec
Insurance	isr	Insurance
Business services n.e.c	obs	Business services nec
Recreational and other services	ros	Recreational and other services
Public administration and defense, education, health	osg	Public administration and defense, education, health

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