

BB Uruguay

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BB.1 Introduction

This document describes the procedure followed to update the Uruguayan input-output table (IOT) for the version 11 of the Global Trade Analysis Project (GTAP) data base. In section 2 we present the data sources. Section 3 describes the correlation between the national classification of products and the GTAP sectors, and section 4 describes the data balancing procedure.

BB.2 Data sources

The SAM had 38 sectors measured in millions of local currency. The table is in purchaser prices. Vectors for net taxes on products and net taxes on production are available. While there is a vector of import values and import duties, land values are not available.

BB.3 Data processing

The Central Bank of Uruguay publishes the information on National Accounts and Supply and Use Tables. Recently, there has been a change in the base year for National Accounts Statistics, from 2012 to 2016, and new Supply and Use Tables (SUT) for 2016 were published. The information is published online, well documented, and expressed in Million Uruguayan Pesos.⁹¹ They include detailed information on production, imports, trade and transport margins, taxes and subsidies, intermediate consumption, value added, final consumption, and employment for 95 activities and 110 commodities. Information on value added in the SUT is split between total wages and capital.

The information made it possible to construct an Input Output Table (IOT). As the number of activities and commodities is not equal, we built a product-by-product IOT using the industry technology assumption (model B) as described in UN (2018). The resulting IOT has 110 commodities/activities.

BB.4 Concordances

The concordance between the 110 commodities, defined by the national classification of products, and GTAP products is presented in Table 8.122. For most products, a 1:1 correlation is possible, but some commodities as defined at the level of aggregation of National Accounts include one or

⁹¹<https://www.bcu.gub.uy/Estadisticas-e-Indicadores/Paginas/Cuadro-de-Oferta-y-Utilizacion.aspx> and Central Bank of Uruguay (2022)

more GTAP sectors. The breakdown of these sectors was done by the GTAP Centre and agreed by the authors.

BB.5 Adjustments

Some adjustments were needed to adapt the IOT to GTAP database. Information in SUT is expressed at final prices. SUT also include information on total taxes and total margins by commodity, and taxes and margins applied on domestic and imported products. In order to split taxes on domestic products, taxes on imported products, margins on domestic products and margins on imported products, we assumed constant tax rates among domestic and imported products.

SUT include reexports in the economy. We adjusted these values, which affected a few products, through imports.

References

Central Bank of Uruguay (2022) Cuadro de Oferta y Utilización. Metodología. Estadísticas y Estudios, Banco Central del Uruguay <https://www.bcu.gub.uy/Estadisticas-e-Indicadores/Metodologia/%20Actualizacin/%202020/Cuadro/%20de/%20Oferta/%20y/%20Utilizacion/%20Metodologia.pdf>

United Nations (2018) Handbook on Supply and Use Tables and Input-Output Tables with Extensions and Applications, Series F No.74, Rev.1, Department of Economic and Social Affairs Statistics Division https://unstats.un.org/unsd/nationalaccount/docs/SUT_IOT_HB_Final_Cover.pdf

Table 8.122: Concordance between national classification of products and GTAP sectors

No.	National classification of products	GTAP
1	Seeds	gro
2	Wheat	wht
3	Maize and sorghum	gro
4	Rice	pdr
5	Barley	gro
6	Other cereals	gro
7	Vegetables, edible roots and tubers, pulses	v_f
8	Fruits and nuts	v_f
9	Soy and Sunflower	osd
10	Sugar crops	c_b
11	Fodder, plants and fibers	pfb/ocr
12	Bovine animals, bovine semen	ctl
13	Other ruminants (ovine, caprine and other ruminants); horses and equines; other live animals (excluding porcine and poultry)	ctl/oap
14	Swine, poultry, fresh eggs	oap
15	Raw milk	rmk

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No.	National classification of products	GTAP
16	Other animal products, except hides and skins, raw	oap/wol
17	Hides, skins, and furskins, raw	oap
18	Forestry	frs
19	Fishing	fish
20	Coal and lignite; peat; crude oil; Mining of uranium and thorium ores; Mining of other non-ferrous metal ores	coa/oil/oxt
21	Natural gas; steam and hot water; ice and snow; natural water	gas/ely
22	Stone, sand and clay; other minerals	oxt
23	Electricity	ely
24	Meat and meat offal, bovine	cmt
25	Meat and meat offal, rest	omt
26	Prepared and preserved fish, crustaceans, molluscs and other aquatic invertebrates	ofd
27	Vegetable oils and fats	vol
28	Prepared and preserved vegetables, pulses and potatoes; Prepared and preserved fruits and nuts	ofd
29	Dairy products and processed egg products	mil
30	Rice, semi- or wholly milled, or husked	pcr
31	Flours except rice flour	ofd
32	Starches and starch products; Preparations used in animal feeding; lucerne (alfalfa) meal and pellets; Macaroni, noodles, couscous and similar farinaceous products	ofd
33	Bakery products; Macaroni, noodles, couscous and similar farinaceous products	ofd
34	Cocoa, chocolate and sugar confectionery; sugars and sugar syrups n.e.c.; Food products n.e.c.	ofd/sgr
35	Ethyl alcohol; spirits, liqueurs and other spirituous beverages; tobacco products	b_t
36	Wine	b_t
37	Beer and malt	b_t
38	Non alcoholic beverages, bottled mineral waters	b_t
39	Yarn and thread; woven and tufted textile fabrics	tex
40	Textiles (except wearing apparel)	tex
41	Wearing apparel, except fur apparel and plastic accessories; knitted and crocheted apparel	wap
42	Manufacture of leather and leather products except footwear	lea
43	Manufacture of footwear and its parts	lea
44	Products of wood and cork; manufacture of articles of straw and plaiting material	lum
45	Pulp, paper and paperboard	ppp
46	Printing and service activities related to printing	ppp
47	Gasoline for land transport vehicles	p_c
48	Fuel and querosene for planes and ships	p_c
49	Fuel for boilers (fuel oil and diesel oil)	p_c
50	Other light, medium and heavy oils from petroluem or bituminous minerals	p_c
51	Coke, hard-coal, tar, petroleum gas, vaseline, wax, etc	p_c
52	Fertilizers and pesticides	chm
53	Basic chemicals except fertilizers and pesticides	chm
54	Paints, varnishes and similar coatings, printing ink and mastics	chm
55	Pharmaceuticals	bph
56	Soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations	chm
57	Rubber and plastic products	rpp
58	Glass and glass products; ceramic products; refractory products; clay building materials	nmm

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No.	National classification of products	GTAP
59	Cement, lime and plaster; articles of concrete, cement and plaster; Cutting, shaping and finishing of stone; Manufacture of other non-metallic mineral products n.e.c	nmm
60	Furniture and parts	omf
61	Jewellery and related articles; musical instruments; sports goods; games and toys; Other manufacturing n.e.c	omf
62	Waste	wtr
63	Basic metals	i.s/nfm
64	Fabricated metal products; general-purpose machinery; special-purpose machinery; Manufacture of office machinery and equipment	fmp/ome
65	Manufacture of computers and peripheral equipmen	ele
66	Manufacture of electrical equipment	eeq
67	Manufacture of communication equipment	ele
68	Manufacture of measuring, testing, navigating and control equipment; watches and clocks	ele
69	Manufacture of motor vehicles, trailers and semi-trailers	mvh
70	Manufacture of other transport equipment	otn
71	Construction of residential buildings	cns
72	Construction of non residential buildings	cns
73	Other construction activities	cns
74	Trade services, except by commission or contract	trd
75	Trade services by commission or contract	trd
76	Accommodation	afs
77	Food and beverage service activities	afs
78	Passenger transport services	otp/wtp/atp
79	Freight transport services	otp/wtp/atp
80	Support activities for transportation	whs
81	Postal and courier activities	cmn
82	Distribution of electricity and gas	ely/gdt
83	Distribution of water	wtr
84	Central banking	ofi
85	Financial intermediation services, indirectly measured	ofi
86	Other financial intermediation services except insurance and pension funding	ofi
87	Insurance and pension funding	ins
88	Activities auxiliary to financial service	ofi
89	Real estate activities with own or leased propert	rsa
90	Real estate activities on a fee or contract basis	rsa
91	Rental services	obs/dwe
92	Leasing of intellectual property	obs
93	Scientific research and development; Legal and accounting activities; Other professional services; Auxiliary services	obs
94	Information services, telecommunications, radiobroadcasting	cmn
95	Travel agency, tour operator, reservation service and related activities	obs
96	Support activities to agriculture, trapping, forestry, and fishing	fsh/frs/gro
97	Support activities for mining; services related to electricity, water and gas distribution	oil/gas/oxt/ely/gdt/wtr
98	Maintenance, repair and installation (except building)	omf
99	Other manufacturing services	omf
100	Compulsory social security activities	osg
101	Administration of the State and the economic and social policy of the community	osg
102	Pre-primary, primary, secondary, and higher education	edu

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No.	National classification of products	GTAP
103	Other education n.e.c	edu
104	Hospital services	hht
105	Human health activities; Residential care activities	hht
106	Sewerage; Waste collection, treatment and disposal activities; materials recovery; Environmental protection activities	wtr
107	Activities of business, employers and professional membership organizations	ros
108	Arts, entertainment and recreation	ros
109	Activities of extraterritorial organizations and bodies	osg
110	Domestic services	ros