

2014 Report on the Regional Input-Output Tables in the GTAP Data Base
Version 9 pre-release 1¹
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1. Introduction

The geographical coverage of the GTAP Data Base depends on the Input-Output (I-O) table statistics contributed by members of the GTAP network. The accuracy of the GTAP Data Base is contingent on the quality of the contributed I-O tables.² The GTAP Data Base can be further improved by updating current I-O tables with more recent data, by identifying and correcting common errors in existing I-O tables, and by contributing new I-O tables.

The purpose of this report is to examine which countries the Center should be focusing on obtaining new contributions. First, we examine the I-O tables currently used to produce the GTAP Data Base version 9 pre-release 1, to highlight those regions where updated contributions are desirable and whether an I-O table is listed for inclusion in the "chopping block". We examine the year upon which the I-O table is based, the version to which it was contributed, and a number of common flaws in I-O tables. Lastly, we examine those countries not currently included in the GTAP Data Base that have significantly high economic features, such as GDP per capita and population and hence where contributions would be desirable.

2. Current GTAP I-O Tables

2.1 Version, Base Year, and Level of Disaggregation

Table 1 (under *References*) provides a list of the sources and contributors of I-O tables for the GTAP Data Base. Version 9 pre-release 1 reflects the global economy for three years 2004, 2007, and 2011. However, the I-O tables for 7 of the 114 distinct countries are from 1995 or older.³ The countries with the oldest base years for their I-O tables are listed in Table 2. One of these regions, Hong Kong, has an I-O table that is older than 1990. This is the only region for

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² Those interested in contributing are referred to GTAP Technical Paper # 1 by Huff, McDougall and Walmsley (1999).

³ Release numbers and data years for all regions taken from GTAP website, under I-O table pages for Board members: https://www.gtap.agecon.purdue.edu/access_board/IO/default.asp.

which there has not been an I-O table update since Version 1. Hong Kong has remained in the GTAP Data Base to its importance in global trade. Nonetheless, we have contacted National Statistical Offices and various research networks with regards to our I-O table call for contributions. We have received letters of intent for contribution of all the countries listed in Table 2.

Table 2: Regions with oldest data years

No.	Region	Data year	Initial release
1	Hong Kong	1988	1
2	Zimbabwe	1991	5
3	Bangladesh	1993-94	5
4	Botswana	1993-94	5
5	Croatia	1995	5.2
6	Tunisia	1995	6

Another shortcoming of the I-O tables in the GTAP Data Base is that not all the tables have all 57 GTAP sectors and therefore additional disaggregation is required during the database construction process (see Appendix A for complete listing of sectors).

In total, there are 106 I-O tables for which data are not available for all 57 GTAP sectors (Table 3). Four countries, Benin, Panama, Namibia, and Sri Lanka do not have data for 30 sectors, which is the minimum requirement for the GTAP Data Base. In these cases, data were not available and the contributors suggested that it would be better for the Center to disaggregate these aggregated sectors. The number of I-O tables with less than 57 sectors has increased significantly since version 6 with the increase in the number of countries in the data base.

Table 3: Regions with less than 57 sectors

No.	Description	Total	Version	Year
1	Panama	27	7	1996
2	Sri Lanka	29	7	2000
3	Namibia	29	8	2004
4	Benin	29	8.1	2003
5	Armenia	30	7	2002
6	Switzerland	30	8	2008
7	Guinea	30	8.1	2005
8	Togo	30	8.1	2006
9	Dominican Republic	30	9	2005

Table 3: Regions with less than 57 sectors

No.	Description	Total	Version	Year
10	Egypt	31	6.2	2003
11	Kyrgyzstan	31	7	2003
12	Lao People's Democratic Republic	31	7	2002
13	Senegal	31	9	2005
14	Azerbaijan	32	7	2001
15	Pakistan	32	9	2007
16	Bolivia	33	7.1	2004
17	Kenya	33	8	2001
18	Uganda	33	8	2002
19	Kazakhstan	34	7	2004
20	Nicaragua	34	7	2000
21	Cote d'Ivoire	34	8	1998
22	Mongolia	34	8	2005
23	Rwanda	34	8.1	2006
24	Brunei Darussalam	34	9	2005
25	Jamaica	35	9	2007
26	Malawi	36	8.1	2007
27	Zambia	36	8.1	2007
28	Paraguay	36	9	2009
29	Hong Kong	37	1	1988
30	Tunisia	37	6	1995
31	Costa Rica	37	7	2002
32	Bahrain	37	8	2005
33	Kuwait	37	8	2005
34	Mexico	37	8	2003
35	Oman	37	8	2005
36	Qatar	37	8	2005
37	Saudi Arabia	37	8	2005
38	United Arab Emirates	37	8	2005
39	Mozambique	37	8.1	2007
40	Norway	38	8	2007
41	El Salvador	38	8	2000
42	Burkina Faso	38	8.1	2005
43	Nigeria	38	8.1	2006
44	Puerto Rico	38	9	2000
45	Ethiopia	39	7.1	2002
46	Tanzania United Republic of	39	8.1	2007
47	Chile	40	7	2003
48	Belarus	40	8.1	2010
49	Ecuador	41	7	2004

Table 3: Regions with less than 57 sectors

No.	Description	Total	Version	Year
50	Russian Federation	41	7	2003
51	South Africa	41	7	2005
52	Ghana	41	8	2005
53	New Zealand	41	9	2007
54	Mauritius	42	6.1	1997
55	Honduras	42	8	2004
56	Turkey	42	9	2002
57	Iran Islamic Republic of	43	7	2001
58	Israel	43	8	2004
59	Singapore	43	8.1	2007
60	Trinidad and Tobago	43	9	2000
61	China	45	9	2010
62	Jordan	45	9	2006
63	Morocco	46	7	2004
64	Ukraine	46	7	2004
65	Malaysia	46	8	2005
66	Venezuela	46	8	1997
67	Viet Nam	47	7.1	2005
68	Guatemala	50	7	2001
69	Peru	50	7	2004
70	Uruguay	50	7	1997
71	India	50	8	2003
72	Philippines	50	8	2000
73	Canada	51	7	2003
74	Thailand	51	8	2005
75	Brazil	52	8.1	2005
76	Indonesia	53	7	2004
77	Austria	54	7.1	2000
78	Belgium	54	7.1	2000
79	Bulgaria	54	7.1	2000
80	Cyprus	54	7.1	2000
81	Czech Republic	54	7.1	2000
82	Denmark	54	7.1	2000
83	Estonia	54	7.1	2000
84	Finland	54	7.1	2000
85	France	54	7.1	2000
86	Germany	54	7.1	2000
87	Greece	54	7.1	2000
88	Hungary	54	7.1	2000
89	Ireland	54	7.1	2000

Table 3: Regions with less than 57 sectors

No.	Description	Total	Version	Year
90	Italy	54	7.1	2000
91	Latvia	54	7.1	2000
92	Lithuania	54	7.1	2000
93	Luxembourg	54	7.1	2000
94	Malta	54	7.1	2000
95	Netherlands	54	7.1	2000
96	Poland	54	7.1	2000
97	Portugal	54	7.1	2000
98	Romania	54	7.1	2000
99	Slovakia	54	7.1	2000
100	Slovenia	54	7.1	2000
101	Spain	54	7.1	2000
102	Sweden	54	7.1	2000
103	United Kingdom	54	7.1	2000
104	Australia	54	8	2005
105	Colombia	56	8.1	2007
106	Korea Republic of	56	8.1	2007

2.2 The "Chopping Block"

In the past the Center has generally believed that providing some data, even if some of the data were missing and had to be filled with assumptions, improved information and was therefore better than not having data. However as the project continues to grow, we need to make every effort to maintain high data quality, particularly as the number of users has increased and their knowledge of the potentially significant differences in the quality of data across countries and sources is more uncertain.

In order to address some of these concerns the Center will clean the database of older I-O tables and encourage the contribution of new ones. Based on Tables 2 and 3, we have prepared a sub-list (Table 4), also known as the “Chopping Block”, of countries that we plan to remove from version 9 if no new contribution can be obtained. The criteria used to decide which countries are to be included on the chopping block are:

- a) the age of the I-O table (1995 or older); and
- b) the version to which the table was submitted (prior to version 6).

Table 4: The Chopping Block

Region	Data year	Initial Release	Total number of sectors	Data Availability
Bangladesh	1993-94	5	57	SAM Available/ contributor exist
Botswana	1993-94	5	57	SAM Available/ contributor exist
Croatia	1995	5.2	57	2004 IO table available/ contributor exist
Tunisia	1995	6	37	SAM Available/ contributor exist

Based on current information we would potentially remove 4 countries from the standard GTAP 9 Data Base: Bangladesh, Botswana, Tunisia, and Croatia (Table 4). Botswana will still be publicly available through the African GTAP Data Base; while the other 3 would not be included separately in the public version of the GTAP 9 Data Base, although it would still be used to make the composite (rest of) regions. Our hope is that given the availability of SAM data, contributors will step forward to contribute for version 9.

This encouragement proved to be useful as members of our network responded to our calls and have contributed more recent tables for a couple of countries that were listed to be removed in version 8. Isabel Teichmann from the German Institute for Economic Research (DIW Berlin) contributed the 2002 Uganda SAM table and Roberto Ferrer and Jorge Hernandez, from Venezuela's Central Bank, have contributed the 1997 Venezuela I-O table.

In addition to removing countries from the current GTAP Data Base, the Center will also give greater consideration to whether to include a new country. In particular countries based on limited data (e.g., if the table has less than 30 sectors, or has been significantly disaggregated or created using entropy type techniques by the contributor or the Center) then the country may not be included in the publicly available GTAP Data Base. In these cases we may decide to include the I-O table in a special version of the GTAP Data Base available to contributors and funding bodies only, rather than make the tables publicly available as part of the GTAP Data Base.

2.3 Peer-review Process

In version 8 we began performing I-O table peer-review process. Two countries already included in the GTAP 7 Data Base, Spain and Russia, were reviewed by two network members.

The reviewers were granted access to all of the original data files and GTAP I-O report, which includes the Center's in-house checks. The reviewers were given two months for the review and their final reviews will be placed on the website along with the other country reports.

Although the review itself was useful in giving us additional valuable information on the quality of the table which was then forwarded to the original contributor, the review process itself took considerable time which would not normally be available during a hectic release schedule. In addition, the documentation usually comes at a later stage of the I-O contribution process and without this a good review is impossible. Due to these timing issues, we decided that future peer-reviews will be seek in cases where there is concerns about the data (e.g., the table has less than the required number of sectors) or a reviewer steps forward voluntarily. Therefore, these will not be undertaken as part of the normal acceptance/rejection checks, but will be used as a way of identifying what aspects of the tables could be improved in subsequent contributions.

For version 9, three I-O tables (Syria, Lebanon, and Iraq) were reviewed because they less than 30 sectors, the minimum required. Using these reviews, the data team decided that the tables should not be accepted into the GTAP Data Bases. The contributors found the feedback useful and are currently working on improving their data.

In addition, we have looked into ways to facilitate the contribution of GTAP I-O tables starting from a supply and use table because, according to SNA08, supply and use tables are the necessary first step in the development of I-O tables. One benefit of supply and use tables is that it must be compatible with macro data.

2.4. Common I-O Table Flaws

Aside from a recent base year, the other desirable feature of an I-O table is the accuracy of the data. The GTAP 9 pre1 Data Base was scrutinized for known common problems with the regional I-O tables.⁴

Share of Dwellings

Dwellings (*dwe*) are defined as imputed rents. In some I-O tables dwellings are set equal to zero. An examination of the dwellings shares reveals that 18 I-O tables have *dwe* less than 1%

⁴ For a complete listing of regions, their GDP and various ratios used to analyze the data see Appendix B.

(see Appendix B). Table 5 reports regions with a *dwe* flow and for which the contributed table contains information on dwellings. Nevertheless, countries with no dwellings sector appear in all versions and from recent to old years.

Most of the regions have been contributed in the last two versions and despite attempts to obtain data on *dwe* none could be found. Given the difficulty of obtaining this data, the Center has begun a review of the I-O tables that do contain dwelling sectors to analyze the feasibility of estimating dwellings based on a global/regional average size of the dwellings sector in a typical economy.

Related to this is the cost structure of dwellings. It is expected that the dwellings sector consist primarily of capital. Most countries show a dwelling sector with a capital share over total costs larger than 60%. Nine countries have a capital share below 40%, these are Romania, Ghana, Zambia (32% each), Mexico and Senegal (25% each), Argentina (22%), Tanzania (14%), and Sri Lanka and Brunei (0% each).

Table 5: Regions with share of dwelling flow

Country Name	Share of Dwellings in total production	Year	Version
Azerbaijan	0%	2001	7
Belarus	0%	2010	8.1
Brunei Darussalam	0%	2005	9
Cameroon	0%	2003	8
Costa Rica	0%	2002	7
Cote d'Ivoire	0%	1998	8
Croatia	0%	1995	5.2
Kazakhstan	0%	2004	7
Kyrgyzstan	0%	2003	7
Madagascar	0%	1999	6
Mauritius	0%	1997	6.1
Mexico	0%	2003	8
Nicaragua	0%	2000	7
Nigeria	0%	2006	8.1
Russian Federation	0%	2003	7
Tunisia	0%	1995	6
Turkey	0%	2002	9
Ukraine	0%	2004	7

Agricultural Cost Shares

Another issue related to the I-O table data that has been raised in a number of reports is the cost structure of agriculture, in particular the low use of agriculture in processed foods: paddy rice used in processed rice; sugar cane used in processed sugar; and raw milk used in dairy products.

The Center has adopted two changes to its policies in this area:

- a) Previously the Center encouraged contributors to disaggregate their own I-O table as it was felt that they knew their economies better than we did. Now the Center discourages contributors from disaggregating agriculture unless they have information on the different cost structures, not simply total production.
- b) The Center undertakes checks on the data to examine strange cost shares. Tables where cost shares differ significantly from the representative table are flagged in a report to the contributor for them to investigate further.

3. Regions Not in the GTAP Data Base

To determine how comprehensive the GTAP Data Base is, it is necessary to determine which regions do not have country-level I-O tables included in the database. Currently individual countries together account for 97.21% of total world GDP and 91.84% of global population, a jump from version 8 that covered approximately 90.45% of the global population. The rest of the 8.16% of the population are included in countries that are incorporated within the 20 aggregated regions. We do not have individual I-O tables from many of the largely populated countries since most of them come from the developing world from which data are difficult to obtain, for a complete list of countries in GTAP 9 pre-release 1 Data Base please go to:

<https://www.gtap.agecon.purdue.edu/databases/regions.asp?Version=8.321>

Table 6 provides a list of eleven regions with the highest GDP in millions of 2011 US\$. Four of these countries are from the Middle East, four from the continent of Africa. The remaining countries, Cuba, Serbia, and Uzbekistan, are located in the Caribbean, Europe and Asia respectively.

Table 6: Regions not in Database with Highest GDP (Millions of 2011 US\$)

No.	Regions	GDP (2011 Million USD)
1	Algeria	199,071
2	Iraq	191,177
3	Angola	104,116
4	Cuba	68,234
5	Syrian Arab Republic	64,273
6	Sudan	63,997
7	Uzbekistan	45,324
8	Serbia	43,292
9	Libya	40,587
10	Lebanon	40,094
11	Yemen, Rep.	31,725

Narrowing our perspective to per capita GDP, it can be seen that only Liechtenstein and Monaco have per capita real GDP over a hundred thousand in this list; the rest of the countries have income levels between \$90K and \$25K.

Table 7: Regions not in Database with Highest GDP/capita (2011 US\$)

No.	Regions	GDP per capita (2011 USD)
1	Liechtenstein	167,171.74
2	Monaco	163,025.86
3	Bermuda	85,973.16
4	Macao SAR, China	67,359.47
5	San Marino	65,402.24
6	Cayman Islands	58,813.84
7	Andorra	45,023.09
8	Iceland	44,030.58
9	Greenland	42,759.95
10	New Caledonia	39,638.06
11	French Polynesia	27,730.07
12	Aruba	25,354.78
13	Equatorial Guinea	23,473.44
14	Turks and Caicos Islands	22,912.06
15	Bahamas, The	21,490.36

The regions with the highest populations are also noteworthy. It can be seen from Table 8 (showing population in millions) that among countries with highest population, 6 are from Africa, 4 are from Asia, and 3 are from the Middle East.

Table 8: Regions not in Data Base with Highest Populations

No.	Regions	Population (millions)
1	Congo, Dem. Rep.	63.93
2	Myanmar	52.35
3	Algeria	37.76
4	Sudan	36.43
5	Iraq	31.76
6	Uzbekistan	29.34
7	Afghanistan	29.11
8	Yemen, Rep.	23.30
9	Syrian Arab Republic	21.96
10	Angola	20.18
11	Niger	16.51
12	Mali	14.42
13	Chad	12.08

4. Conclusion

Considering old data years and possible data flaws, there are several regions for which new or updated I-O tables may be desirable. In terms of countries not currently included in the GTAP Data Base, Algeria and Iran top the list in terms of GDP; in addition, DR Congo, Myanmar, Sudan, and Iraq are largely populated with over 30 million people and do not have individual I-O tables listed in GTAP. The representation of many African economies is improving in part by the special World Bank funded African GTAP Data Bases. Also since countries in the GTAP Data Base covers 97% of world's GDP, the focus will now shift to obtaining data for countries that are largely populated. Finally, looking at income levels, many of the smaller regions and islands stand out, such as: Liechtenstein, Bermuda, San Marino, British Virgin Islands, Cayman Islands, and Faroe Islands. Apart from these, it is unfortunate that the political situation in several countries for which I-O tables may be desirable – such as Afghanistan – may make it difficult to obtain data for several years to come.

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Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
1	AUS	Australia	2005	MMRF database derived from ABS Input Output tables, 2005-06	Patrick Jomini, Simon Hone, Alexandra Strzelecki	8
2	NZL	New Zealand	2007	Statistics New Zealand. (2012). National Accounts Input-Output Tables: Year ended March 2007. Statistics New Zealand, Wellington.	Anna Strutt and Papu Siameja	9
4	CHN	China	2010	National Bureau of Statistics of China	Yu Liu, Chen Jie	9
5	HKG	Hong Kong	1988	Tormey (1993)	SALTER project	1
6	JPN	Japan	2005	2005 Input-Output Tables for Japan, Statistics Bureau, the Ministry of Ministry of Internal Affairs and Communications	Susumu Suzuki, Shiro TAKEDA	8.1
7	KOR	Korea Republic of	2007	The Bank of Korea. 2009. Input-Output Tables of Korea 2007. Seoul.	Jong-Hwan Ko	8.1
8	MNG	Mongolia	2005	Mongolian Inter-Sector Balance Table for 2005	Michael Begg, Burmaa Chadraaval, Ragchaasuren Galindev and Esmedekh Lkhanaajav	8
9	TWN	Taiwan	2006	Taiwan Input Output Table	Hsing-Chun Lin, Shih-Hsun Hsu	8.1
11	BRN	Brunei Darussalam	2005	BRUNEI DARUSSALAM'S INPUT-OUTPUT TABLES 2005 by Department of Economic Planning and Development, Prime Minister's Office, Brunei Darussalam; publicly available at http://www.depd.gov.bn/home.html	Ken Itakura	9
12	KHM	Cambodia	2003	National Institute of Statistics (2006), National Institute of Statistics (2005), and National Bank of Cambodia (2006)	Sothea Oum	7
13	IDN	Indonesia	2004	Biro Pusat Statistik (1999)	Mark Horridge and Armida S.Alisjahbana)	7

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
14	LAO	Lao People's Democratic Republic	2002	Asian Development Bank (2005), Menon and Warr (2006), and Rao (1993)	Carlos Ludeña	7
15	MYS	Malaysia	2005	Malaysian Input-output tables for the year 2005, Department of Statistics, 2009.	Nhi Tran	8
16	PHL	Philippines	2000	Input-Output Table of the Philippines (National Statistical and Coordination board)	Erwin Corong	8
17	SGP	Singapore	2007	Singapore Input-output tables for 2007	Nhi Tran	8.1
18	THA	Thailand	2005	2005 Input-Output Table of Thailand from the Office of the National Economic and Social Development Board (NESDB)	Tosapol Apaitan	8
19	VNM	Viet Nam	2005	Vietnam General Statistics Office (GSO)	James Giesecke	7.1
21	BGD	Bangladesh	1993-94	Bangladesh Planning Commission and Bangladesh Institute of Development Studies (1998)	A.N.K. Noman and Jong-Hwan Ko	5
22	IND	India	2003	Input-output transactions table, 2003-04, (Government of India, 2008)	Rajesh Chadha, Anjali Tandon	8
23	NPL	Nepal	2007	An Input-output technology matrix of year 2001 from the Planning Commission of Nepal and the Central Bureau of Statistics (CBS) which has been updated; National Accounts from CBS; Trade data from UNCOMTRADE; domestic tax data from department of inland revenue; import duties from Department of Customs. Also, Nepal Labour Force Survey and Nepal Living Standard Survey by CBS	Selim Raihan, Bazlul Khondker	8
24	PAK	Pakistan	2007	Dario Debowicz, Paul Dorosh, Hamza Syed Heider and Sherman Robinson 'A 2007-08 Social	Dario Debowicz, Sherman Robinson, Hamza Syed Heider and Paul Dorosh	9

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
				Accounting Matrix for Pakistan' IFPRI PSSP Working Paper N.1.		
25	LKA	Sri Lanka	2000	Amarasinghe and Bandara (2005), and Bandara and Kelegama (2008)	Jeevika Weerahewa and Jay Bandara	7
27	CAN	Canada	2003	Statistics Canada	Shenjie Chen and Rick Cameron	7
28	USA	United States of America	2002	Dixon and Rimmer (2001), Dixon, Rimmer, and Tsigas (2004), and Lawson (1997)	Marinos Tsigas	7
29	MEX	Mexico	2003	Matriz insumo producto 2003 released by the Mexican Instituto Nacional de Estadística Geografía e Informática (INEGI)	Aida Gonzalez–Mellado, Claudia Octaviano	8
31	ARG	Argentina	2000	(1) National Institute of Statistics and Census, and (2) Secretary of Agriculture, Livestock-farming, Fisheries and Food Industry	Maximiliano Méndez Parra	6
32	BOL	Bolivia	2004	National Statistics Institute of Bolivia	Carlos Ludena and Unidad de Análisis de Políticas Sociales y Económicas (UDAPE), Government of Bolivia	7.1
33	BRA	Brazil	2005	Brazilian 2005 IO table from Instituto Brasileiro de Geografia e Estatística - IBGE	Joaquim Bento Ferreira-Filho	8.1
34	CHL	Chile	2003	Banco Central de Chile (2001)	Andres Schuschny and Carlos Ludeña	7
35	COL	Colombia	2007	The National Administrative Department of Statistics (DANE)	Gabriel Piraquive Galeano, Erick Céspedes Rangel	8.1
36	ECU	Ecuador	2004	Central Bank of Ecuador (2000)	Sara Wong and Carlos Ludeña	7

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
37	PRY	Paraguay	2009	The contribution is based on a 2009 social accounting matrix documented in Cicowiez and Santander (2013). Construcción de una Matriz de Contabilidad Social para Paraguay para el año 2009. The SAM was built using supply and use tables for the year 1997 (latest available) combined with National Accounts, fiscal, trade, and balance of payments data for the year 2009.	Martin Cicowoez, Horacio Santander, Carlos Ludena	9
38	PER	Peru	2004	Peruvian Ministry of Finance (2004)	David Roland-Holst and Saule Kazybayeva	7
39	URY	Uruguay	1997	Terra, Olivieri, Tellechea and Zaclicever (2008)	Ines Terra	7
40	VEN	Venezuela	1997	Department of Macroeconomic Accounts, Central Bank of Venezuela	Roberto Ferrer, Agustín Velázquez, Jorge Hernández	8
42	CRI	Costa Rica	2002	SAM built by Sanchez (2006), based on data from Central Bank of Costa Rica	Carlos Ludeña and Marco Sanchez	7
43	GTM	Guatemala	2001	Secretaria General de Planificación (SEGEPLAN).	Carlos Ludeña and Jose Duran	7
44	HND	Honduras	2004	Honduras 2004 SAM	José Elías Durán Lima, Gonzalo R. Véliz Marín Carlos Eduardo Ludeña Mauricio Pereira Flores	8
45	NIC	Nicaragua	2000	Central Bank of Nicaragua (2006)	Carlos Ludeña, Marco Sanchez, and Rob Vos	7
46	PAN	Panama	1996	SAM built by Marco V. Sanchez and Rob Vos based on Supply and Use Tables "Contraloría General of Panama"	Carlos Ludeña	7
47	SLV	El Salvador	2000	Social Accounting Matrix, year 2000, from IFPRI (International Food Policy Research Institute)	José Elías Durán Lima, Carlos Ludeña Mauricio Pereira Gonzalo Véliz	8

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
49	DOM	Dominican Republic	2005	Banco Central de la República Dominicana	Carlos Ludena and Mark Horridge	9
50	JAM	Jamaica	2007	Hope Perkins, Statistical Institute of Jamaica	Carlos Ludena and Mark Horridge	9
51	PRI	Puerto Rico	2000	Nelson D. López Esquerdo, Programa Planificación Económica y Social de Puerto Rico	Carlos Ludena and Mark Horridge	9
52	TTO	Trinidad and Tobago	2000	Inter-American Institute for Cooperation on Agriculture (IICA)	Carlos Ludena and Mark Horridge	9
54	AUT	Austria	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
55	BEL	Belgium	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
56	CYP	Cyprus	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
57	CZE	Czech Republic	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
58	DNK	Denmark	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
59	EST	Estonia	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
60	FIN	Finland	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
61	FRA	France	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
62	DEU	Germany	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
63	GRC	Greece	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
64	HUN	Hungary	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
65	IRL	Ireland	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
66	ITA	Italy	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
67	LVA	Latvia	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
68	LTU	Lithuania	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
69	LUX	Luxembourg	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
70	MLT	Malta	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
71	NLD	Netherlands	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
72	POL	Poland	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
73	PRT	Portugal	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
74	SVK	Slovakia	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
75	SVN	Slovenia	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
76	ESP	Spain	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
77	SWE	Sweden	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
78	GBR	United Kingdom	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
79	CHE	Switzerland	2008	Swiss Input-Output Table 2008 (Swiss Federal Office of Statistics)	Renger van Nieuwkoop, Nathani, Carsten	8
80	NOR	Norway	2007	Statistics Norway	Glen Peters	8
82	ALB	Albania	2000	(1) Albanian Ministry of Finance publication, (2001) (2) Ms. Godiva Rembeci, Institute of Statistics, (3) IMF (2000) (4) INSTAT (2000) (5) Albanian Ministry of Finance publication (2001), and also discussions with taxation officials.	Mark Horridge	5.3
83	BGR	Bulgaria	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
84	BLR	Belarus	2010	2010 I-O tables from the Belarus Statistical Committee	Csilla Lakatos, Irina Tochitskaya	8.1
85	HRV	Croatia	1995	Henrichsmeyer, W., J. Köckler, A. Quiring and T. Möllmann (1999)	Martin Banse and Terrie Walmsley	5.2
86	ROU	Romania	2000	Mueller, M., Pérez Domínguez, I., & Gay, S. H. (2009)	Marc Mueller, Scott McDonald, and Csilla Lakatos	7.1
87	RUS	Russian Federation	2003	Rosstat (2008) and (2006)	Natalia Tourdyeva	7

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
88	UKR	Ukraine	2004	Ukrainian Input-Output table, State Statistics Committee of Ukraine	Iryna Orlova	7
91	KAZ	Kazakhstan	2004	Abdiev (2007)	David Roland-Holst and Saule Kazybayeva	7
92	KGZ	Kyrgyzstan	2003	Miles Light	Aziz Atamanov, Lucio Vinhas de Souza and Joe Francois	7
94	ARM	Armenia	2002	The table is based on a table included in a social accounting matrix developed by Miles K. Light, Ekaterine Vashakmadze, and Artsvi Khatchatryan.	Jesper Jensen, David Tarr and Oleksandr Shepotylo	7
95	AZE	Azerbaijan	2001	Statistical Committee of Azerbaijan Republic in Statistical Yearbook of Azerbaijan 2005.	Jesper Jensen, David Tarr and Oleksandr Shepotylo	7
96	GEO	Georgia	2001	Unofficial table provided by the Economic Policy Research Center (EPRC) in Georgia.	Jesper Jensen, David Tarr and Oleksandr Shepotylo	7
97	BHR	Bahrain	2005	General national accounts data for 2005, Central Informatics Organisation, Bahrain. Detailed national accounts statistics 2006 and 2007, Central Informatics Organisation, Bahrain. UN trade data (Comtrade) for imports and exports. Kuwait I/O table for 2005 with 44-sectors.	David Green	8
98	IRN	Iran Islamic Republic of	2001	Statistical Center of Iran	Farzad Taheripour	7
99	ISR	Israel	2004	Domestic institutions in Israel, including but not limited to: the Israeli Central Bureau of Statistics, the Central Bank of Israel, and the Israeli Tax Authority (ITA). See the extended documentation for more details.	Khalid Siddig, Dorothee Flaig; Jonas Luckmann; Harald Grethe	8

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
100	JOR	Jordan	2006	Social Accounting Matrix for Jordanian Economy	Mohamed Hedi Bchir, Sandra El-Saghir Sinno, and Angel aguiar	9
101	KWT	Kuwait	2005	Detailed 54-sector I/O table for 2000 published by the Kuwait Central Statistics Office. Abbreviated 29-sector I/O table for 2005 (unpublished) provided by the Kuwait Ministry of Planning. The National Accounts Statistics 2005 published by the Kuwait Central Statistics Office in 2008. UN Comtrade trade data.	David Green	8
102	OMN	Oman	2005	National Accounts 2005, Ministry of National Economy, Oman. Nine-Sector Social Accounting Matrix 1999, Boughanmi, et al 2002, Department of Agricultural Economics and Rural Studies, Sultan Qaboos University, Oman. UN trade data (Comtrade) for imports and exports. Kuwait I/O table for 2005 with 44 sectors, 2011.	David Green	8
103	QAT	Qatar	2005	Annual Statistical Abstract, 2007, Qatar Statistics Authority. Economic Statistics Bulletin, 2008, Qatar Statistics Authority. UN trade data (Comtrade) for imports and exports. Kuwait I/O table for 2005 with 44 sectors, 2011.	David Green	8

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
104	SAU	Saudi Arabia	2005	The key sources of data used to produce the input-output table were as follows: • Kuwait I/O table for 2005 with 44 sectors, 2011. • National Accounts Data 2005, Central Department of Statistics and Information, Saudi Ministry of Economy and Planning • The National Accounts Statistics 2005, Kuwait Central Statistical Office • UN trade data (Comtrade) for imports and exports. In addition, various data on specific sectors was also used (e.g. refining capacity, crude oil production, etc.).	David Green	8
105	TUR	Turkey	2002	“The Input-Output Structure of the Turkish Economy 2002,” published by the Turkish Statistical Institute (TURKSTAT) in March 2008.	Mustafa Acar, Levent Aydin	9
106	ARE	United Arab Emirates	2005	National Accounts Data, 2005, UAE Ministry of Economy. Ten-Sector Input-Output Table for the UAE, 2003. Eight-Sector Social Accounting Matrix of the UAE Economy, 2006, Working Paper by Nico Vellinga, Economic Policy Research Unit, Zayed University. Kuwait I/O table for 2005 with 44 sectors, 2011.	David Green	8
108	EGY	Egypt	2003	National Accounts, National Planning Unit of Egypt	Noura Abdelwahab and Miles Light	6.2
109	MAR	Morocco	2004	Bussolo and Roland-Holst (1993)	David Roland-Holst and Saad Belghazi	7
110	TUN	Tunisia	1995	Institut National de la Statistique, Tunisia (1998)	Denise Konan and Ari Van Assche	6
112	BEN	Benin	2003	Base de données MCS 2003 du Bénin	Badri Narayanan	8.1

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
113	BFA	Burkina Faso	2005	Ministry of Agriculture, Hydraulic and Fisheries Resources	Lacina Balma, Dramane Bako	8.1
114	CMR	Cameroon	2003	Not specified.	Christian Arnault Emini	8
115	CIV	Cote d'Ivoire	1998	1998 Input-Output table for Cote d'Ivoire, provided by	Kone Youssouf, Diallo, Souleymane	8
116	GHA	Ghana	2005	A 2005 Social Accounting Matrix (SAM) for Ghana, published in October 2007, by Ghana Statistical Services (GSS), International Food Policy Research Institute (IFPRI) under the Ghana Strategy Support Program (GSSP)	Charles Adjasi, Emmanuel Kinful	8
117	GIN	Guinea	2005	MATRICE DE COMPTABILITE SOCIALE DE LA GUINEE, Ismael FOFANA & Lacina BALMA, International Food Policy Research Institute (IFPRI), West and Central Africa Office (Janvier 2012). Source: TRE 2005, Comptes Nationaux 1997-2006, EIBEP 2002-2003	Lacina Balma, Ismael Fofana	8.1
118	NGA	Nigeria	2006	The Nigerian SAM of Nwafor et al. (2010) together with several domestic data sources such as the National Bureau of Statistics and the Central Bank of Nigeria are used to develop the 2006 Nigerian IOT.	Khalid Siddig, Jonas Luckmann	8.1
119	SEN	Senegal	2005	Diagne, Abdoulaye, François Joseph Cabral, Fatou Cissé, and Anne-Sophie Robilliard. 2011. Country Study: Assessing Development Strategies to Achieve the MDGs in the Republic of Senegal. United Nations Department for Social and Economic Affairs, March.	Angel Aguiar	9

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
				http://www.un.org/en/development/desa/policy/capacity/output_sam.shtml		
120	TGO	Togo	2006	Unpublished research by a PEP network team member.	Lacina Balma, Damien AGBODJI	8.1
124	ETH	Ethiopia	2002	Social Accounting Matrix 2001/02 compiled by IDS in collaboration with EDRI	Dirk Willenbockel and Sherman Robinson in version 7.1.	7.1
125	KEN	Kenya	2001	Several structural and annual data sources such as national accounts, government accounts, balance of payments and foreign trade data, as well as the most recent IO table (1997 SAM constructed by the Kenya Institute for Public Policy Research and Analysis KIPPRA), SAMs for earlier base years constructed by the Kenyan Central Bureau of Statistics and the 1997 Welfare Monitoring Survey	Peter Wobst, Benjamin Schraven	8
126	MDG	Madagascar	1999	INSTAT (2003), also documented in Dorosh, P., S. Haggblade, C. Lungren, T. Razafimanantena, and Z. Randriamiarana (2003)	Simon Njaka Randrianarivelo and Shuby Andriamanajara	6
127	MWI	Malawi	2007	Douillet, M., K. Pauw and J. Thurlow (2012) "A Standard 2007 Social Accounting Matrix for Malawi." Washington DC, USA: International Food Policy Research Institute.	Zekarias Hussein, James Thurlow	8.1
128	MUS	Mauritius	1997	Supply and Use Table (SUT) 1997 compiled by the Central Statistical Office (CSO) of Mauritius and provided by Mr Dawnath, Head of National Accounts Department.	Sawkut Rojid	6.1

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
129	MOZ	Mozambique	2007	Arndt, C., Pauw, K. and J. Thurlow (2012) "A Standard 2007 Social Accounting Matrix for Mozambique." Washington DC, USA: International Food Policy Research Institute.	Zekarias Hussein, James Thurlow	8.1
130	RWA	Rwanda	2006	Arnault, E. C. 2007. "The 2006 Social Accounting Matrix of Rwanda: Methodology Note." Unpublished memo, University of Yaounde II, Yaounde, Cameroon.	Zekarias Hussein	8.1
131	TZA	Tanzania United Republic of	2007	Xinshen D., J. Thurlow, S. Benin, and S. Fan (eds) 2012. Strategies and priorities for African agriculture: economywide perspectives from country studies. International Food Policy Research Institute (IFPRI)	Zekarias Hussein, James Thurlow	8.1
132	UGA	Uganda	2002	Uganda SAM 2002, provided by the Uganda Bureau of Statistics (UBoS), Kampala, Uganda	Isabel Teichmann	8
133	ZMB	Zambia	2007	Chikuba, Z., M. Syacumpi, J. Thurlow and E. Zulu (2012) "A Standard 2007 Social Accounting Matrix for Zambia." Washington DC, USA: International Food Policy Research Institute.	Zekarias Hussein, James Thurlow	8.1
134	ZWE	Zimbabwe	1991	A 1991 Social Accounting Matrix (SAM) for Zimbabwe, by Marcelle Thomas, Romeo M. Bautista, International Food Policy Research Institute.	Mark Horridge	5.1
136	BWA	Botswana	1993-94	McDonald	Mark Horridge	5

Table 1: Sources of I-O tables in GTAP Version 8 Data Base

No.	Code	Country Name	Period	Source of I-O Table	Contributor(s)	Version
137	NAM	Namibia	2004	Marie-Lange, G. (2008). A social accounting matrix for Namibia, 2004: A tool for analysing economic growth, income distribution and poverty, Namibian Economic Research Unit,	Michael Begg, Lelly Nghixulifwa	8
138	ZAF	South Africa	2005	Statistics South Africa (2006)	Cecilia Punt	7

Appendix A: Number of Sectors in the Contributed I-O Tables

No.	Code	Country Name	Version	Total	Agriculture	Processed Food	Manufactures & Services	Prices: Basic or Producer	Documentation Availability
1	AUS	Australia	8	54	11	6	37	Basic	N/A
2	NZL	New Zealand	9	41	4	4	33	Basic	Available
4	CHN	China	9	45	2	7	36	Basic	Available
5	HKG	Hong Kong	1	37	6	5	26	Unknown	N/A
6	JPN	Japan	8.1	57	12	8	37	Basic	Available
7	KOR	Korea Republic of	8.1	56	12	7	37	Basic	Available
8	MNG	Mongolia	8	34	2	3	29	Basic	Available
9	TWN	Taiwan	8.1	57	12	8	37	Basic	Available
11	BRN	Brunei Darussalam	9	34	1	1	32	Basic	Available
12	KHM	Cambodia	7	57	12	8	37	Basic	Available
13	IDN	Indonesia	7	53	10	7	36	Basic	N/A
14	LAO	Lao People's Democratic Republic	7	31	12	1	18	Basic	Available
15	MYS	Malaysia	8	46	6	5	35	Basic	Available
16	PHL	Philippines	8	50	9	6	35	Basic	Available
17	SGP	Singapore	8.1	43	2	5	36	Unknown	Available
18	THA	Thailand	8	51	9	7	35	Unknown	Available
19	VNM	Viet Nam	7.1	47	6	7	34	Unknown	Available
21	BGD	Bangladesh	5	57	12	8	37	Basic	Available
22	IND	India	8	50	10	4	36	Basic & Purchaser	Available
23	NPL	Nepal	8	57	12	8	37	Purchaser	N/A
24	PAK	Pakistan	9	32	8	4	20	Unknown	Available
25	LKA	Sri Lanka	7	29	5	3	21	Unknown	Available
27	CAN	Canada	7	51	8	8	35	Basic	N/A

Appendix A: Number of Sectors in the Contributed I-O Tables

No.	Code	Country Name	Version	Total	Agriculture	Processed Food	Manufactures & Services	Prices: Basic or Producer	Documentation Availability
28	USA	United States of America	7	57	12	8	37	Basic	N/A
29	MEX	Mexico	8	37	2	2	33	Basic	Available
31	ARG	Argentina	6	57	12	8	37	Basic	Available
32	BOL	Bolivia	7.1	33	4	5	24	Unknown	Available
33	BRA	Brazil	8.1	52	11	8	33	Basic	Available
34	CHL	Chile	7	40	3	5	32	Unknown	Available
35	COL	Colombia	8.1	56	12	7	37	Purchaser	N/A
36	ECU	Ecuador	7	41	5	5	31	Unknown	Available
37	PRY	Paraguay	9	36	7	6	23	Purchaser	Available
38	PER	Peru	7	50	12	8	30	Unknown	N/A
39	URY	Uruguay	7	50	12	8	30	Basic	Available
40	VEN	Venezuela	8	46	4	6	36	Basic	Available
42	CRI	Costa Rica	7	37	9	7	21	Basic	N/A
43	GTM	Guatemala	7	50	12	7	31	Purchaser	N/A
44	HND	Honduras	8	42	7	7	28	Basic	Available
45	NIC	Nicaragua	7	34	5	5	24	Purchaser	Available
46	PAN	Panama	7	27	10	2	15	Purchaser	N/A
47	SLV	El Salvador	8	38	7	6	25	Basic	Available
49	DOM	Dominican Republic	9	30	4	4	22	Basic	N/A
50	JAM	Jamaica	9	35	6	5	24	Basic	N/A
51	PRI	Puerto Rico	9	38	1	7	30	Basic	N/A
52	TTO	Trinidad and Tobago	9	43	7	7	29	Basic	N/A
54	AUT	Austria	7.1	54	12	8	34	Basic	Available
55	BEL	Belgium	7.1	54	12	8	34	Basic	Available
56	CYP	Cyprus	7.1	54	12	8	34	Basic	Available

Appendix A: Number of Sectors in the Contributed I-O Tables

No.	Code	Country Name	Version	Total	Agriculture	Processed Food	Manufactures & Services	Prices: Basic or Producer	Documentation Availability
57	CZE	Czech Republic	7.1	54	12	8	34	Basic	Available
58	DNK	Denmark	7.1	54	12	8	34	Basic	Available
59	EST	Estonia	7.1	54	12	8	34	Basic	Available
60	FIN	Finland	7.1	54	12	8	34	Basic	Available
61	FRA	France	7.1	54	12	8	34	Basic	Available
62	DEU	Germany	7.1	54	12	8	34	Basic	Available
63	GRC	Greece	7.1	54	12	8	34	Basic	Available
64	HUN	Hungary	7.1	54	12	8	34	Basic	Available
65	IRL	Ireland	7.1	54	12	8	34	Basic	Available
66	ITA	Italy	7.1	54	12	8	34	Basic	Available
67	LVA	Latvia	7.1	54	12	8	34	Basic	Available
68	LTU	Lithuania	7.1	54	12	8	34	Basic	Available
69	LUX	Luxembourg	7.1	54	12	8	34	Basic	Available
70	MLT	Malta	7.1	54	12	8	34	Basic	Available
71	NLD	Netherlands	7.1	54	12	8	34	Basic	Available
72	POL	Poland	7.1	54	12	8	34	Basic	Available
73	PRT	Portugal	7.1	54	12	8	34	Basic	Available
74	SVK	Slovakia	7.1	54	12	8	34	Basic	Available
75	SVN	Slovenia	7.1	54	12	8	34	Basic	Available
76	ESP	Spain	7.1	54	12	8	34	Basic	Available
77	SWE	Sweden	7.1	54	12	8	34	Basic	Available
78	GBR	United Kingdom	7.1	54	12	8	34	Basic	Available
79	CHE	Switzerland	8	30	3	1	26	Basic	Available
80	NOR	Norway	8	38	3	1	34	Basic	Available
82	ALB	Albania	5.3	57	12	8	37	Unknown	Available
83	BGR	Bulgaria	7.1	54	12	8	34	Basic	Available
84	BLR	Belarus	8.1	40	12	8	20	Basic	N/A

Appendix A: Number of Sectors in the Contributed I-O Tables

No.	Code	Country Name	Version	Total	Agriculture	Processed Food	Manufactures & Services	Prices: Basic or Producer	Documentation Availability
85	HRV	Croatia	5.2	57	12	8	37	Unknown	N/A
86	ROU	Romania	7.1	54	12	8	34	Basic	Available
87	RUS	Russian Federation	7	41	4	4	33	Basic	Available
88	UKR	Ukraine	7	46	1	8	37	Basic	Available
91	KAZ	Kazakhstan	7	34	1	1	32	Basic	N/A
92	KGZ	Kyrgyzstan	7	31	1	1	29	Basic	N/A
94	ARM	Armenia	7	30	6	4	20	Basic	Available
95	AZE	Azerbaijan	7	32	1	1	30	Basic	Available
96	GEO	Georgia	7	57	12	8	37	Purchaser	Available
97	BHR	Bahrain	8	37	5	1	31	Purchaser	Available
98	IRN	Iran Islamic Republic of	7	43	6	3	34	Unknown	Available
99	ISR	Israel	8	43	9	5	29	Unknown	Available
100	JOR	Jordan	9	45	6	7	32	Basic	N/A
101	KWT	Kuwait	8	37	5	1	31	Producer	Available
102	OMN	Oman	8	37	5	1	31	Purchaser	Available
103	QAT	Qatar	8	37	5	1	31	Purchaser	Available
104	SAU	Saudi Arabia	8	37	5	1	31	Basic	Available
105	TUR	Turkey	9	42	1	6	35	Basic	Available
106	ARE	United Arab Emirates	8	37	5	1	31	Purchaser	Available
108	EGY	Egypt	6.2	31	3	4	24	Unknown	Available
109	MAR	Morocco	7	46	12	6	28	Unknown	Available
110	TUN	Tunisia	6	37	3	5	29	Basic	Available
112	BEN	Benin	8.1	29	5	1	23	Unknown	N/A
113	BFA	Burkina Faso	8.1	38	8	6	24	Basic	N/A
114	CMR	Cameroon	8	57	12	8	37	Basic	N/A

Appendix A: Number of Sectors in the Contributed I-O Tables

No.	Code	Country Name	Version	Total	Agriculture	Processed Food	Manufactures & Services	Prices: Basic or Producer	Documentation Availability
115	CIV	Cote d'Ivoire	8	34	4	2	28	Basic	Available
116	GHA	Ghana	8	41	9	4	28	Basic	Available
117	GIN	Guinea	8.1	30	9	3	18	Purchaser	N/A
118	NGA	Nigeria	8.1	38	12	4	22	Unknown	Available
119	SEN	Senegal	9	31	2	4	25	Producer	Available
120	TGO	Togo	8.1	30	3	4	23	Purchaser	N/A
124	ETH	Ethiopia	7.1	39	6	5	28	Basic	N/A
125	KEN	Kenya	8	33	10	3	20	Basic	Available
126	MDG	Madagascar	6	57	12	8	37	Unknown	Available
127	MWI	Malawi	8.1	36	9	4	23	Unknown	N/A
128	MUS	Mauritius	6.1	42	11	5	26	Unknown	Available
129	MOZ	Mozambique	8.1	37	9	3	25	Unknown	N/A
130	RWA	Rwanda	8.1	34	10	4	20	Purchaser	N/A
131	TZA	Tanzania United Republic of	8.1	39	11	6	22	Unknown	N/A
132	UGA	Uganda	8	33	3	2	28	Producer	Available
133	ZMB	Zambia	8.1	36	9	4	23	Unknown	Available
134	ZWE	Zimbabwe	5.1	57	12	8	37	Unknown	N/A
136	BWA	Botswana	5	57	12	8	37	Unknown	N/A
137	NAM	Namibia	8	29	3	2	24	Basic	Available
138	ZAF	South Africa	7	41	3	6	32	Purchaser	N/A

Appendix B: Regions and Data

Regions	Region Code	GDP (2011 Million USD)	GDP/capita (2011 USD)	Population (millions)	SHR Dwe in Total Production	SHR K+L Total Costs (Dwe)	Year	Version
Australia	AUS	1,384,267	61,996	22.33	0.043	0.849	2005	8
New Zealand	NZL	158,940	36,080	4.41	0.036	0.706	2007	9
Rest of Oceania	XOC	43,884	4,354	10.08	0.040	0.683		
China	CHN	7,314,250	5,442	1,344.13	0.013	0.754	2010	9
Hong Kong	HKG	248,727	35,173	7.07	0.013	0.882	1988	1
Japan	JPN	5,896,796	46,135	127.82	0.055	0.867	2005	8.1
Korea Republic of	KOR	1,114,472	22,388	49.78	0.020	0.768	2007	8.1
Mongolia	MNG	8,761	3,181	2.75	0.025	0.742	2005	8
Taiwan	TWN	464,009	20,006	23.19	0.033	0.840	2006	8.1
Rest of East Asia	XEA	49,180	1,953	25.18	0.036	0.844		
Brunei Darussalam	BRN	16,360	40,244	0.41	0.004	0.999	2005	9
Cambodia	KHM	12,830	878	14.61	0.023	0.874	2003	7
Indonesia	IDN	846,478	3,472	243.80	0.056	0.965	2004	7
Lao People's Democratic Republic	LAO	8,227	1,262	6.52	0.011	0.918	2002	7
Malaysia	MYS	287,934	10,012	28.76	0.011	0.644	2005	8
Philippines	PHL	224,095	2,358	95.05	0.031	0.942	2000	8
Singapore	SGP	245,024	47,268	5.18	0.011	0.730	2007	8.1
Thailand	THA	345,670	5,192	66.58	0.006	0.949	2005	8
Viet Nam	VNM	123,679	1,408	87.84	0.024	0.902	2005	7.1
Rest of Southeast Asia	XSE	56,411	1,054	53.53	0.015	0.916		
Bangladesh	BGD	111,906	732	152.86	0.031	0.755	1993-94	5
India	IND	1,872,847	1,534	1,221.16	0.022	0.951	2003	8
Nepal	NPL	18,977	699	27.16	0.044	0.884	2007	8
Pakistan	PAK	210,741	1,196	176.17	0.012	0.822	2007	9
Sri Lanka	LKA	59,187	2,836	20.87	0.005	0.887	2000	7

Appendix B: Regions and Data

Regions	Region Code	GDP (2011 Million USD)	GDP/capita (2011 USD)	Population (millions)	SHR Dwe in Total Production	SHR K+L Total Costs (Dwe)	Year	Version
Rest of South Asia	XSA	22,021	730	30.17	0.036	0.866		
Canada	CAN	1,777,786	51,554	34.48	0.035	0.871	2003	7
United States of America	USA	14,991,294	48,113	311.59	0.045	0.864	2002	7
Mexico	MEX	1,157,643	9,699	119.36	0.000	0.359	2003	8
Rest of North America	XNA	8,212	64,398	0.13	0.030	0.868		
Argentina	ARG	446,044	10,952	40.73	0.048	1.000	2000	6
Bolivia	BOL	23,949	2,320	10.32	0.019	0.922	2004	7.1
Brazil	BRA	2,476,653	12,576	196.94	0.033	0.946	2005	8.1
Chile	CHL	250,994	14,501	17.31	0.028	0.797	2003	7
Colombia	COL	336,347	7,144	47.08	0.000	0.863	2007	8.1
Ecuador	ECU	76,770	5,035	15.25	0.019	0.779	2004	7
Paraguay	PRY	26,008	3,957	6.57	0.007	0.874	2009	9
Peru	PER	176,812	5,970	29.61	0.002	0.749	2004	7
Uruguay	URY	46,435	13,724	3.38	0.072	0.808	1997	7
Venezuela	VEN	316,482	10,728	29.50	0.029	0.905	1997	8
Rest of South America	XSM	11,776	7,574	1.55	0.035	0.886		
Costa Rica	CRI	41,072	8,669	4.74	0.000	0.832	2002	7
Guatemala	GTM	47,689	3,243	14.71	0.090	0.927	2001	7
Honduras	HND	17,708	2,277	7.78	0.023	0.946	2004	8
Nicaragua	NIC	9,635	1,632	5.91	0.000	0.832	2000	7
Panama	PAN	31,316	8,373	3.74	0.026	0.897	1996	7
El Salvador	SLV	23,139	3,699	6.26	0.043	0.963	2000	8
Rest of Central America	XCA	1,447	4,577	0.32	0.010	0.771		
Dominican Republic	DOM	55,669	5,486	10.15	0.057	0.925	2005	9
Jamaica	JAM	14,426	5,330	2.71	0.025	0.673	2007	9
Puerto Rico	PRI	98,757	26,734	3.69	0.114	0.673	2000	9

Appendix B: Regions and Data

Regions	Region Code	GDP (2011 Million USD)	GDP/capita (2011 USD)	Population (millions)	SHR Dwe in Total Production	SHR K+L Total Costs (Dwe)	Year	Version
Trinidad and Tobago	TTO	23,498	17,627	1.33	0.006	0.657	2000	9
Caribbean	XCB	109,218	4,765	22.92	0.013	0.702		
Austria	AUT	417,656	49,581	8.42	0.009	0.714	2000	7.1
Belgium	BEL	513,863	46,513	11.05	0.010	0.858	2000	7.1
Cyprus	CYP	24,992	22,384	1.12	0.025	0.669	2000	7.1
Czech Republic	CZE	216,012	20,580	10.50	0.004	0.853	2000	7.1
Denmark	DNK	333,616	59,889	5.57	0.011	0.718	2000	7.1
Estonia	EST	22,155	16,534	1.34	0.006	0.684	2000	7.1
Finland	FIN	264,739	48,875	5.42	0.013	0.671	2000	7.1
France	FRA	2,775,006	42,600	65.14	0.012	0.859	2000	7.1
Germany	DEU	3,600,820	44,021	81.80	0.015	0.807	2000	7.1
Greece	GRC	289,627	25,631	11.30	0.019	0.866	2000	7.1
Hungary	HUN	138,696	13,909	9.97	0.009	0.909	2000	7.1
Ireland	IRL	220,823	48,249	4.58	0.006	0.738	2000	7.1
Italy	ITA	2,192,358	36,104	60.72	0.008	0.929	2000	7.1
Latvia	LVA	28,417	13,807	2.06	0.008	0.918	2000	7.1
Lithuania	LTU	42,891	14,155	3.03	0.008	0.881	2000	7.1
Luxembourg	LUX	59,201	114,211	0.52	0.005	0.785	2000	7.1
Malta	MLT	9,152	21,964	0.42	0.005	0.866	2000	7.1
Netherlands	NLD	836,074	50,085	16.69	0.013	0.860	2000	7.1
Poland	POL	515,667	13,382	38.53	0.007	0.901	2000	7.1
Portugal	PRT	237,574	22,504	10.56	0.016	0.766	2000	7.1
Slovakia	SVK	96,035	17,790	5.40	0.005	0.907	2000	7.1
Slovenia	SVN	50,250	24,478	2.05	0.008	0.667	2000	7.1
Spain	ESP	1,476,881	31,985	46.17	0.010	0.849	2000	7.1
Sweden	SWE	539,278	57,071	9.45	0.008	0.658	2000	7.1

Appendix B: Regions and Data

Regions	Region Code	GDP (2011 Million USD)	GDP/capita (2011 USD)	Population (millions)	SHR Dwe in Total Production	SHR K+L Total Costs (Dwe)	Year	Version
United Kingdom	GBR	2,444,884	38,961	62.75	0.014	0.690	2000	7.1
Switzerland	CHE	659,307	83,326	7.91	0.064	0.734	2008	8
Norway	NOR	491,069	99,106	4.96	0.035	0.767	2007	8
Rest of EFTA	XEF	20,260	57,006	0.36	0.011	0.797		
Albania	ALB	12,960	4,109	3.15	0.023	0.791	2000	5.3
Bulgaria	BGR	53,545	7,287	7.35	0.010	0.781	2000	7.1
Belarus	BLR	64,271	6,785	9.47	0.000	0.870	2010	8.1
Croatia	HRV	61,789	14,435	4.28	0.000	0.866	1995	5.2
Romania	ROU	182,611	8,539	21.38	0.012	0.468	2000	7.1
Russian Federation	RUS	1,899,090	13,284	142.96	0.000	0.846	2003	7
Ukraine	UKR	163,423	3,576	45.71	0.000	0.872	2004	7
Rest of Eastern Europe	XEE	7,015	1,970	3.56	0.000	0.871		
Rest of Europe	XER	103,679	7,253	14.29	0.005	0.779		
Kazakhstan	KAZ	186,428	11,259	16.56	0.000	0.862	2004	7
Kyrgyzstan	KGZ	6,198	1,124	5.51	0.000	0.867	2003	7
Rest of Former Soviet Union	XSU	79,907	1,891	42.26	0.000	0.867		
Armenia	ARM	10,138	3,420	2.96	0.019	0.737	2002	7
Azerbaijan	AZE	65,953	7,190	9.17	0.000	0.869	2001	7
Georgia	GEO	14,434	3,220	4.48	0.029	0.842	2001	7
Bahrain	BHR	29,044	22,467	1.29	0.014	0.964	2005	8
Iran Islamic Republic of	IRN	514,058	6,816	75.42	0.036	0.879	2001	7
Israel	ISR	258,217	33,250	7.77	0.046	0.936	2004	8
Jordan	JOR	28,840	4,666	6.18	0.044	0.711	2006	9
Kuwait	KWT	160,913	51,497	3.12	0.015	0.964	2005	8
Oman	OMN	69,972	23,133	3.02	0.008	0.964	2005	8
Qatar	QAT	171,476	89,736	1.91	0.007	0.961	2005	8

Appendix B: Regions and Data

Regions	Region Code	GDP (2011 Million USD)	GDP/capita (2011 USD)	Population (millions)	SHR Dwe in Total Production	SHR K+L Total Costs (Dwe)	Year	Version
Saudi Arabia	SAU	669,509	24,116	27.76	0.009	0.962	2005	8
Turkey	TUR	774,775	10,605	73.06	0.001	1.000	2002	9
United Arab Emirates	ARE	348,596	39,058	8.93	0.017	0.963	2005	8
Rest of Western Asia	XWS	325,467	3,814	85.34	0.033	0.745		
Egypt	EGY	235,984	2,972	79.39	0.023	0.927	2003	6.2
Morocco	MAR	99,211	3,095	32.06	0.013	1.000	2004	7
Tunisia	TUN	46,435	4,350	10.67	0.000	0.459	1995	6
Rest of North Africa	XNF	230,840	5,201	44.38	0.000	0.643		
Benin	BEN	7,296	746	9.78	0.039	0.908	2003	8.1
Burkina Faso	BFA	10,396	650	16.00	0.016	0.949	2005	8.1
Cameroon	CMR	25,321	1,197	21.16	0.000	0.868	2003	8
Cote d'Ivoire	CIV	24,074	1,242	19.39	0.000	0.770	1998	8
Ghana	GHA	39,564	1,594	24.82	0.018	0.672	2005	8
Guinea	GIN	5,096	457	11.16	0.017	0.989	2005	8.1
Nigeria	NGA	243,986	1,486	164.19	0.000	0.819	2006	8.1
Senegal	SEN	14,448	1,084	13.33	0.000	0.238	2005	9
Togo	TGO	3,686	569	6.47	0.011	0.899	2006	8.1
Rest of Western Africa	XWF	29,226	603	48.43	0.024	0.899		
Central Africa	XCF	63,022	2,712	23.23	0.007	0.963		
South Central Africa	XAC	119,771	1,424	84.11	0.028	0.999		
Ethiopia	ETH	31,709	355	89.39	0.021	0.987	2002	7.1
Kenya	KEN	34,330	817	42.03	0.023	0.950	2001	8
Madagascar	MDG	9,912	457	21.68	0.000	0.671	1999	6
Malawi	MWI	5,621	364	15.46	0.011	0.728	2007	8.1
Mauritius	MUS	11,242	8,741	1.29	0.000	0.836	1997	6.1
Mozambique	MOZ	12,568	511	24.58	0.018	0.892	2007	8.1

Appendix B: Regions and Data

Regions	Region Code	GDP (2011 Million USD)	GDP/capita (2011 USD)	Population (millions)	SHR Dwe in Total Production	SHR K+L Total Costs (Dwe)	Year	Version
Rwanda	RWA	6,354	570	11.14	0.034	0.830	2006	8.1
Tanzania United Republic of	TZA	23,872	515	46.35	0.014	0.204	2007	8.1
Uganda	UGA	16,822	479	35.15	0.031	0.864	2002	8
Zambia	ZMB	19,204	1,409	13.63	0.016	0.516	2007	8.1
Zimbabwe	ZWE	9,656	723	13.36	0.027	0.876	1991	5.1
Rest of Eastern Africa	XEC	75,526	1,187	63.65	0.002	0.794		
Botswana	BWA	15,293	7,697	1.99	0.015	1.000	1993-94	5
Namibia	NAM	12,623	5,692	2.22	0.025	1.000	2004	8
South Africa	ZAF	401,801	7,943	50.59	0.017	0.998	2005	7
Rest of South African Customs Union	XSC	6,494	2,003	3.24	0.016	1.000		
Rest of the World	XTW	180	27,448	0.01	0.032	0.725		