

16.1 Overview of the IO tables

Robert McDougall

The purpose of this chapter is to summarize the sources and procedures used to develop the domestic data bases uses in version 3 of GTAP. A large number of these input-output tables were inherited from the Australian Industry Commission's SALTER project (Hambley). These have gradually been updated and supplemented by contributions from GTAP collaborators. Individuals interested in contributing IO tables to future versions of the GTAP data base are referred to GTAP technical paper no.1 (Huff and McDougall) for a detailed discussion of what is involved.

Table 16.1 summarizes the sources and reference periods for the IO tables underpinning the version 3 data base. In many cases (eg., USA) these tables are only available at five year intervals, and they are often published only several years after the data is collected. (The 1987 USA table was published in 1994.) This means that this part of the data base is virtually impossible to keep up to date. Fortunately, the input-output coefficients tend to change relatively slowly, and these country data bases are updated to match observed macroeconomic, trade and protection targets in our base year (1992 in this case) following procedures described in Chapter 19. We believe that the resulting "estimated" domestic data bases are of reasonably high quality, in all but a few cases. Obviously in some of the economies in transition (Russia and Central Europe, for example), recent changes have been very dramatic and nothing short of (as yet unavailable) up-to-date IO tables will solve the problem.

In the remainder of this chapter, we devote five sections (16.2 - 16.6) to some of the significant new IO tables in the version 3 data base. Since Europe was a major area of emphasis in this version of the data base, we begin there with contributions on the EU3, EU12 and the Central and Eastern European Associates, as well as the Former Soviet Union. A detailed write-up is also available for India. The remaining concordances are either available in Hambley (1993), or upon request fro the Center for Global Trade Analysis.

Table 16.1.1 Sources of Input-Output Data

Region	Reference Period	Source
Australia	1989-90	Australian Bureau of Statistics (1994), and Kenderes and Strzelecki (1995)
New Zealand	1986-87	Department of Statistics (1991), New Zealand
Japan	1985	Ministry of International Trade and Industry (1989), Japan
Korea	1985	Bank of Korea (1988)
Indonesia	1993	Biro Pusat Statistik, Jakarta
Malaysia	1983	Department of Statistics (1988), Malaysia
Philippines	1985	National Economic and Development Authority (1988), Philippines
Singapore	1983	Department of Statistics (1987), Singapore
Thailand	1985	Institute for Developing Economies, Tokyo and Socio Economic Policy and Forecasting Unit, Chulalongkorn University Social Research Institute, Thailand
China (PRC)	1987	Department of Balances of National Economy of the State Statistical Bureau and Office of the National Input-Output Survey (1987), China
Hong Kong	1988	Tormey (1993)
Taiwan	1986	Directorate General of Budget, Accounting and Statistics (1986), Taiwan
India	1983-84	India, Central Statistical Organization (1990)
Rest of South Asia	1989-90	India, Planning Commission
Canada	1992	Representative composite
United States	1986	Statistics Canada (1987)
Mexico	1987	<i>Survey of Current Business</i> , 1994
Central America and the Caribbean	1985	Secretaria de Promocion y Presupuesto (1985), Burfisher, Thierfelder, and Hanson (1992)
Argentina	1992	Representative composite
Brazil	1984	Secretaria de Planificacion (1986), Argentina
Chile	1985	Fundacao Instituto Brasileiro de Geografia e Estatística (1995)
Rest of Latin America	1986	Central Bank of Chile (1986)
European Union	1992	Representative composite
EU-3	1985-91	Eurostat (1994 a-f, 1995 a-b, 1996 a-b)
	1994	Österreichischen Zentralamt (1994)
	1992	Finnish Statistical Centre (unpublished)
	1985	Sweden, Statistiska Centralbyrån (1992)
EFTA	1992	Representative composite
CEA	1968	Fay, J. and Fink, J.N. (?)
	1987-89	World Bank (n.d.)
FSU	1989	World Bank (n.d.)

Table 16.1.1 Sources of Input-Output Data (Continued)

M.E. and North Africa	1992	Representative composite
S-S. Africa	1992	Representative composite
Regions not Elsewhere Classified	1992	Representative composite

References

- Australian Bureau of Statistics. 1994. Input -Output Tables, Australia 1989-90, ABS Catalogue No. 5209.0, Australian Government Publishing Service, Canberra.
- Biro Pusat Statistik Indonesia. 1993. *Sistem Neraca Sosial Ekonomi Indonesia*. Jarkarta-Indonesia. ISSN. 0216-607; 06440.9601
- Central Bank of Chile. 1986. *Matriz de Insumo-Producto Para la Economía Chilena 1986*.
- Eurostat. 1992a. *National Accounts ESA. Input Output Tables for Denmark 1985*. Theme 2, Series C. Luxembourg.
- Eurostat. 1992b. *National Accounts ESA. Input Output Tables for France 1985*. Theme 2, Series C. Luxembourg.
- Eurostat. 1992c. *National Accounts ESA. Input Output Tables for Germany 1985*. Theme 2, Series C. Luxembourg.
- Eurostat. 1992d. *National Accounts ESA. Input Output Tables for Italy 1985*. Theme 2, Series C. Luxembourg.
- Eurostat. 1992e. *National Accounts ESA. Input Output Tables for Spain 1985*. Theme 2, Series C. Luxembourg.
- Eurostat. 1992f. *National Accounts ESA. Input Output Tables for United Kingdom 1985*. Theme 2, Series C. Luxembourg.
- Eurostat. 1994a. *The Interlinking of Economic Branches in the European Union. Consolidated Input-Output Tables for 1991*. Rapid Reports 2, Economic and Finance, Luxembourg.
- Eurostat. 1994b. *National Account ESA, Detailed Tables by Branch*. Luxembourg.
- Eurostat. 1995a. *The Input-Output Tables Database of Eurostat*. B2, Luxembourg.
- Finland, Finnish Statistical Centre. n.d. Input-output table for Finland. Unpublished.
- Fundação Instituto Brasileiro de Geografia e Estatística. 1985. *Matriz de Insumo-Producto Brasil 1985*. Rio de Janeiro.
- Hambley, John 1993. *Early Stage Processing of International Trade and Input-Output Data for SALTER*, SALTER Working Paper No. 15, Industry Commission, Australia.
- Huff, K., and R.A. McDougall 1996. *Contributing Input-Output Tables to the GTAP Data Base*, GTAP Technical Paper No. 1, Purdue University, <http://www.agecon.purdue.edu/gt>
- India, Ministry of Planning, Department of Statistics, Central Statistical Organization. 1990. *Input-Output Transactions Table, 1983-84*.
- Österreichischen Zentralamt. 1994. *Input-Output-Tabelle 1983*, vol. I, II. Vienna.
- Kenderes, M. and A. Strzelecki. 1995. Research Memorandum, ORANI No. 0A-635, April, Industry Commission, Canberra.
- Sweden, Statistiska Centralbyrån. 1992. *Input-output tables for Sweden 1985*.
- Treml V.G. (ed). *Studies in Soviet Input-Output Analysis*.
- USA. 1994. Survey of Current Business.
- World Bank. n.d. Input-output tables for Czechoslovakia, Poland, Romania, Soviet Union. Unpublished.

