

Mauritius

Reference information for source table:

The source table for the I-O table for the Mauritian economy in GTAP version 6.1 is the 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.

The unit in which the original SUT was compiled is in millions of Mauritian rupees (Rs M).

The source data was industry by commodity. For some industries, in the original SUT, the total industry's inputs and output were divided into private and public sector- for example education is divided into private education and public education. In these cases, both have been added up into one- for example education. In the original SUT, the whole of the manufacturing sector has been disaggregated into export processing zone (EPZ) and non-EPZ sectors. These two have been added up into one for the GTAP I-O table.

The original SUT consists of 38 different industries. However, from the point of view of GTAP aggregation, the number of industries would be reduced to a large extent. For example, public administration and defense, education, health and social work, activities of membership organizations, cultural sporting activities, and other services would be counted as 6 service industries in the original SUT. However, in the GTAP framework all these would be included into one sector, osg.

The source data was in purchase prices. However at an aggregated level, data at basic prices was also available.

The original SUT reported total imports by commodity as a column vector. So, in this case, I created an import matrix by pro-rating the total across uses by applying the structure implied by the total use matrix. For each row of the total use matrix, the percentage of the row total allocated to each sector was computed. Then the import matrix was computed by multiplying each commodity total by the appropriate percentage for each sector. The domestic use matrix was obtained by subtracting the computed import matrix from the total use matrix.

2. Description on how inconsistencies between source table and GTAP were dealt with:

The original SUT does not provide information on use of primary factors. For this part of information, the following documents were used:

- National Accounts of Mauritius 2000
- Census of Economic activities 1997, small scale and
- Census of Economic activities 1997, large scale

The energy sector has been disaggregated into electricity and water&gases in the following ratio: 60% elec and 40% water&gases. This cost structure has been taken from the production account.

Products of agriculture, horticulture etc are mapped onto vegetables and fruits because more than 90% of this product group consist of vegetables and fruits.

Applying taxes to change in stock was changing the signs for stock changes for almost all sectors. To deal with this problem, taxes have been applied to everything except changes in stock so that stocks are unaffected by the taxes.

3. Mapping between source data and GTAP sectors:

The Mauritius I-O in GTAP has 40 sectors whereas GTAP consist of 57 sectors.

The following sectors have been aggregated together into one:

- Ocr, ctl, oap, and for have been aggregated into othag
- Cmt, omt, vol, mil, pcr, and ofd have been aggregated into othfood
- Oil and omn have been aggregated into oil_omn
- P_c and crp has been aggregated into p_c_crp
- Gdt and wtr have been aggregated into gas_wtr
- I_s, nfm, and fpm have been aggregated into metals
- Mvh, otn, ele, and ome have been aggregated into othmanufcs

Appendix:

GTAP Number	GTAP code	Code in Mauritius I-O
1	pdr	pdr
2	wht	wht
3	gro	gro
4	v_f	v_f
5	osd	osd
6	c_b	c_b
7	pfb	pfb
8,9,10,13	ocr,ctl,oap,for	othag
11	rmk	rmk
12	wol	wol
19,20,21,22,23,25	cmt,omt,vol,mil,pcr,ofd	othfood
24	sgr	sgr
26	b_t	b_t
15	col	col
16,18	oil,omn	oil_omn
17	gas	gas
32,33	p_c,crp	p_c_crp
43	ely	ely
44,45	gdt,wtr	gas_wtr
14	fsh	fsh
27	tex	tex
28	wap	wap
29	lea	lea
30	lum	lum
31	ppp	ppp
34	nmm	nmm
35,36,37	i_s,nfm,fmp	metals
38,39,40,41	mvh,otn,ele,ome	othmanufcs
42	omf	omf
46	cns	cns
47	trd	trd
48	otp	opt
49	wtp	wtp
50	atp	atp
51	cmn	cmn
52,53	ofi,isr	ofi_isr
54	obs	obs
55	ros	ros
56	osg	osg
57	dwe	dwe

4. References:

Huff, McDougall and Walmsley (2000), GTAP technical paper No. 1.