

L Mauritius

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L.1 Reference information for the source table

The data used in preparing the GTAP input-output table for the Mauritius economy came from the 2018 Supply and Use Table (SUT) and Input-Output Table (IOT) and was provided by the National Accounts Unit at the Statistics Mauritius.

The Mauritius IOT is grouped commodity by commodity and includes 26 sectors. The unit in which the original SUT and OIT were compiled is in millions of Mauritian rupees (Rs M).

The provided data were highly aggregated. As the mapping with the GTAP sectoral classification requires at least 30 sectors in the original IOT, the source table was disaggregated, and a new 2018 IOT for Mauritius with 58 sectors was created. The RAS method was applied to rebalance the newly created IOT.

In the original Mauritius I-O table, there was only a column vector for total imports by commodity. Following the procedure suggested by Huff, McDougall and Walmsley (2000), an import matrix was constructed by multiplying the pro-rated total use matrix by the import vector. A domestic matrix was then created by subtracting the import matrix from the total use matrix. Original Mauritius provides data on the value-added matrix for labour and capital, but there is no information on returns to agricultural land. The series for returns to land was set to zero.

Net taxes on products were provided in a column vector by commodity in the Mauritius original IOT. Following the procedure suggested by Huff et al. 2000, a net taxes on product matrix was constructed by multiplying the pro-rated total use matrix by net taxes on product vector.

L.2 Description of how inconsistencies between the source table and GTAP were dealt with

A number of checks on the data were conducted. They include checks of the non-negativity condition, the balancing conditions of the tables, and non-ridiculous tax rates.

The source table exhibits the quality of being balanced. However, some weaknesses were observed. Specifically, there are no separate domestic and import matrices at basic values in the original source table. There is no matrix of net taxes on products. Also, sectors are highly aggregated in the source table.

L.3 Mapping Between Mauritius I-O Sectors and GTAP Sectors

A concordance was made from the source classification to the GTAP sectoral classification. Because of data limitations in the original 2018 Mauritius I-O table, some source sectors were too aggregated to match the GTAP sector breakdown. For these sectors, we contributed our data in aggregated form.

The 58 sectors of the Mauritius I-O table were aggregated to a set of 42 sectors that best correspond to elements of GTAP's standard 65 commodities. The mappings of the 58 and 65 sectors to the 42 sectors are reported in Appendix Table 8.25.

We could not assign the category “dwe” in the GTAP classifications to any of the original I-O table. We allocated its value to the “RealEst” together with real estate services.

After converting the Mauritius I-O table to the format required by GTAP Data Base, we conducted the sectoral balance and non-negativity checks. The new data base passed the sectoral balance check and non-negativity conditions.

Table 8.25: Concordance Table for Mauritius SUT and GTAP Sectors

CPC	Sector no.	Long name	OSEC 58 commodities in original table	OSEC sectors related to GTAP sectors	42 SEC	MPIO Map OSEC to SEC	GSEC 65 GTAP sectors	SMAP Map from GSEC to SEC
1	1	Products of agriculture, horticulture and market gardening	AgriProd	pdr, wht, gro, v_f, osd, pfb, ocr	pdr, wht, gro, v_f, osd, pfb, ocr	AgriProd	1 pdr	AgriProd
1802	2	Sugar cane	SugCane	c_b	c_b	SugCane	2 wht	AgriProd
2	3	Live animals and animal products	AnimProd	ctl, oap, rmk	ctl, oap, rmk	AnimProd	3 gro	AgriProd
3	4	Forestry and logging products	Forest	frs	wol, tex, wap	Textiles	4 v_f	AgriProd
4	5	Fish and other fishing products	FishProd	frs	frs	Forest	5 osd	AgriProd
11	6	Coal and peat	CoalPt	coa	frs	FishProd	6 c_b	SugCane
12	7	Crude petroleum and natural gas	CrudeP	oil, gas	coa	CoalPt	7 pfb	AgriProd
14	8	Metal ores	OresMin	oxo	oil, gas	CrudeP	8 ocr	AgriProd
15	9	Stone, sand and clay	StoSanda	oxo	oxo	Mining	9 ctl	AnimProd
16	10	Other minerals	OthMin	oxo	cmt, omt, vol	FoodProd	10 oap	AnimProd
21	11	Meat, fish, fruit, vegetables, oils and fats	FoodProd	cmt, omt, vol	mil	DairyPr	11 rmk	AnimProd
22	12	Dairy products	DairyPr	mil	pcr, ofd	OthFood	12 wol	Textiles
23	13	Grain mill products, starches and starch products; other food products	OthFood	pcr, ofd	sgo	Sugar	13 frs	Forest
235	14	Sugar	Sugar	sgo	b_t	BeveToba	19 cmt	FoodProd
24-25	15	Beverages and tobacco	BeveToba	b_t	lea	OthManuG	20 omt	FoodProd
26-28	16	Yarn and thread, textile articles and wearing apparel	Textiles	wol, tex, wap	lum	WoodProd	21 vol	FoodProd
29	17	Leather and leather products; footwear	OthManuG	lea	ppp	PaperProd	22 mil	DairyPr
31	18	Products of wood, cork, straw and plaiting materials	WoodProd	lum	p_c	CokeOven	23 pcr	OthFood
32	19	Pulp, paper and paper products; printed matter and related articles	PaperProd	ppp	chm, bph	Chemical	24 sgr	Sugar

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CPC	Sector no.	Long name	OSEC 58 commodities in original table	OSEC sectors related to GTAP sectors	42 SEC	MPIO Map OSEC to SEC	GSEC 65 GTAP sectors	SMAP Map from GSEC to SEC
33	20	Coke oven products; refined petroleum products; nuclear fuel	CokeOven	p_c	rpp	RubPlast	CokeOven 25 ofd	OthFood
34	21	Basic chemicals	BasiChem	chm, bph	nmn	ONonMeta	Chemical 26 b_t	BeveToba
35	22	Other chemical products; man-made fibres	OthChem	chm, bph	i_s, nfm	BasMetal	Chemical 14 fish	FishProd
36	23	Rubber and plastics products	RubPlast	rpp	fmp	FabMetPr	RubPlast 15 coa	CoalPt
37	24	Glass and glass products and other non-metallic products n.e.c.	ONonMeta	nmn	ele	ElMedc	ONonMeta 16 oil	CrudeP
38	25	Furniture; other transportable goods n.e.c.	Furniture	omf	eeq	Media	Furniture 17 gas	CrudeP
39	26	Wastes or scraps	Wastes	wtr	ome	OffEquip	WaSewWat 18 oxt	Mining
41	27	Basic metals	BasMetal	i_s, nfm	mvh, otn	TransEqu	BasMetal 27 tex	Textiles
42	28	Fabricated metal products, except machinery and equipment	FabMetPr	fmp	omf	Furniture	FabMetPr 28 wap	Textiles
43	29	General-purpose machinery	GenMach	ome	ely, gdt	ElectSer	OffEquip 29 lea	OthManuG
44	30	Special-purpose machinery	SpeMach	ome	wtr	WaSewWat	OffEquip 30 lum	WoodProd
45	31	Office, accounting and computing machinery	OffiEq	ome	cns	Const	OffEquip 31 ppp	PaperProd
46	32	Electrical machinery and apparatus	ElMachin	ele	trd	Trade	ElMedc 32 p_c	CokeOven
47	33	Radio, television and communication equipment and apparatus	Media	eeq	afs	AccomSer	Media 33 chm	Chemical
48	34	Medical appliances, precision and optical instruments, watches and clocks	Medical	ele	otp, wtp, atp, whs	Transpo	ElMedc 34 bph	Chemical
49	35	Transport equipment	TransEqu	mvh, otn	cmn	PubPostl	TransEqu 35 rpp	RubPlast
53-54	36	Constructions	Const	cns	ofi, ins	Finance	Const 36 mnm	ONonMeta
61-62	37	Distributive trade services	Trade	trd	rsa, dwe	RealEst	Trade 37 i_s	BasMetal

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CPC	Sector no.	Long name	OSEC 58 commodities in original table	OSEC sectors related to GTAP sectors	42 SEC	MPIO Map OSEC to SEC	GSEC 65 GTAP sectors	SMAP Map from GSEC to SEC
63	38	Accommodation, food and beverage services	AccomSer	afs	obs	Services	38 nfm	BasMetal
64	39	Passenger transport services	Transp	otp, wtp, atp, whs	ros	LeisureS	39 fimp	FabMetPr
65-67	40	Freight and supporting transport services	FreightS	otp, wtp, atp, whs	osg	Government	40 ele	ElMedc
68	41	Postal and courier services	PostSer	cmn	edu	Ed	41 eeq	Media
691	42	Electricity and gas distribution (on own account)	ElectSer	ely, gdt	hht	HealSoc	42 ome	OffEquip
692	43	Water distribution (on own account)	WaterDis	wtr		WaSewWat	43 mvh	TransEqu
71	44	Financial and related services	Finance	ofi, ins		Finance	44 otn	TransEqu
72	45	Real estate services	RealEst	rsa, dwe		RealEst	45 omf	Furniture
73	46	Leasing or rental services without operator	RentalSe	obs		Services	46 ely	ElectSer
81	47	Research and development services	Research	obs		Services	47 gdt	ElectSer
82-83	48	Legal, accounting and other professional, technical and business services	Legal	obs		Services	48 wtr	WaSewWat
84	49	Telecommunications, broadcasting and information supply services	BusSvc	cmn		PubPostI	49 cns	Const
85-87	50	Support and maintenance services	SupMaint	obs		Services	50 trd	Trade
89	51	Publishing, printing and reproduction services	PubInfor	cmn		PubPostI	51 afs	AccomSer
91	52	Public administration and other services provided to the community	PublAdmi	osg		Government	52 otp	Transpo
92	53	Education services	Ed	edu		Ed	53 wtp	Transpo

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93	54	Human health and social care services	HealSoc	hht		HealSoc	54 atp	Transpo	
94	55	Sewage and waste collection, treatment, etc.	Sewage	wtr		WaSewWat	55 whs	Transpo	
95	56	Services of membership organisations	MembOrg	osg		Governm	56 cmn	PubPostl	
96	57	Recreational, cultural and sporting services	Leisure	ros		LeisureS	57 ofi	Finance	
97-98	58	Other services	OthSvc	ros		LeisureS	58 ins	Finance	
							59 rsa	RealEst	
							60 obs	Services	
							61 ros	LeisureS	
							62 osg	Governm	
							63 edu	Ed	
							64 hht	HealSoc	
							65 dwe	RealEst	

References

Huff, Karen et al. (2000). *Contributing Input-Output Tables to the GTAP Data Base*. GTAP Technical Paper 01. Department of Agricultural Economics, Purdue University, West Lafayette, IN: Global Trade Analysis Project (GTAP). URL: https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=304.