

# 11.G

## Singapore

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### 11.G.1 Original Input-Output Table

The Singapore input-output (I-O) table for GTAP is based on the Singapore Input-Output Table 1995. The Singapore I-O table adopts Singapore Standard Industrial Classification (SSIC) 1996. Singapore is a city-country with limited natural resources. Agriculture, as an industry, plays a minor role in the economy. Hence, compared to the International Standard Industrial Classification (ISIC) and the Central Product Classification (CPC), agriculture is highly aggregated in the SSIC.

The SSIC 1996 adopts the basic framework and principles postulated in the ISIC Revision 3. Industrial classification in Singapore is regularly updated to reflect significant changes in the structure of the economy, and the emergence of information technology (IT) and other new activities ([www.singstat.gov.sg](http://www.singstat.gov.sg)). SSIC shares the same classification in *Section* with ISIC, but minor differences do exist in *Division*, *Group* and *Class* between ISIC and SSIC. For example, Division 31 "Manufacture of electrical machinery and apparatus" in ISIC is denoted as Division 30 in SSIC.

The values in the original Singapore I-O table are recorded in millions of Singapore dollars. We converted the values to US dollars using the 1995 average exchange rate of 1.4174 Singapore dollar per US dollar.

### 11.G.2 Mapping Procedure

Using information provided by two alternative concordances (Huff et al., 1999), SSIC and Singapore I-O table, we map the sectors in the Singapore I-O table with the GTAP sectors (see appendix table 11.G.A1).

The 1995 Singapore I-O (industry-by-industry) table, together with the import matrix for 1995 ordered by commodity and industry were recently made available by the Department of Statistics. The I-O table registers information on inter-industry transactions, expenditures on final goods and services, and value-added pertaining to 155 industries. The assumption that each industry produces only one commodity is made.

In order to reconcile and integrate the Singapore I-O table and import matrix in accordance with the GSC sectors, we had to disaggregate sector 1 "livestock", sector 3 "other crops", sector 6 "quarrying & mining" and sector 7 "meat preparations"(SSIC) in the 1995 Singapore I-O table and import matrix. The distributive shares pertaining to the disaggregation of the 4 sectors into compatible GSC sectors are given in table 11.G.1.

Table 11.G.1 Shares used in Disaggregating Some Singapore I-O Table Sectors

Singapore I-O Sector	GTAP Sector	Shares	
		I-O Table	Import Matrix
1 Livestock	ctl	0.001	0.749
	oap	0.997	0.249
	rmk	0.001	0.001
	wol	0.001	0.001
3 Other crops	pdr	0.001	0.165
	wht	0.001	0.035
	gro	0.001	0.005
	v_f	0.994	0.619
	osd	0.001	0.001
	c_b	0.001	0.160
	pfb	0.001	0.015
6 Quarrying and mining	frs	0.001	0.001
	coa	0.001	0.099
	oil	0.700	0.001
	gas	0.297	0.001
	omn	0.001	0.898
7 Meat preparations	cmt	0.500	0.500
	omt	0.500	0.500

### 11.G.3 Other Data Adjustments

In the original Singapore 1995 I-O table, the gross operating surplus (profit) corresponding to sector 1 “livestock” is negative (-0.6 million S\$). This was adjusted to zero by redistributing the negative amount to other three value-added components “tax on products”, “tax on production” and “compensation of employees”.

Imputed charges with respect of banking services are recorded in a separate column in the original Singapore 1995 I-O table. To retain the consistency and compatibility with GSC sectors, we treated it as a sector and aggregated it with the financial services sector, GTAP sector *ofi*.

In the original Singapore 1995 import matrix, there is a row labeled as “other goods and service”. This is not a standard sector in SSIC, hence, we set this row equal to zero and proportionally redistributed the value of this row into other rows.

The detailed methodology used in constructing the Singapore I-O table for GTAP to comply with requirements in Huff, et. al, (2000) for data headers AI01 to AI27 are available upon request.

### ***References***

Calder W., McDougall R. and Strzelecki A. 1993. Procedures for Later Stage Processing of Single Region Input-Output Data for Salter, Salter Working Paper No. 18, Canberra: Industry Commission.

Department of Statistics, Singapore 1995. *Singapore Input-Output Table 1995*.

Department of Statistics, Singapore 1996. *Singapore Standard Industrial Classification 1996*.

Huff, K., McDougall, R. and Walmsley, T. 2000. "Contributing Input-Output Tables to the GTAP Data Base," GTAP Technical Paper No.1, Center for Global Trade Analysis, Purdue University.

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## Appendix

Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
001 Livestock	0121x, 0122x, 01231, 01232, 01233, 01239,	001, 025	ctl, oap, rmk, wol
002 Nursery products	01300(part), 01151, 01152, 01153, 01159	292 (part)	ocr
003 Other corps	0111x, 0112x, 0113x, 01140, 01154, 0119x, 01300(part), 0141x, 0149x, 01500, 02000	041, 042, 043, 044, 045, 054(part), 057(part), 061(part), 072(part), 075(part), 121, 222, 223(part), 261, 263, 264, 265, 268(part), 291(part), 292(part) 034(part)	v_f, osd, c_b, pfd, gro, wht, pdr
004 Aquarium fish	05203		fish
005 Other fisheries	01234, 0510x, 05201, 05202, 05204, 05205, 05209, 0530x	012(part), 034(part), 036(part), 291(part)	fish
006 Quarrying & mining	10002, 1110x, 11900		
007 Meat preparations	1511x	273(part), 274(part), 281, 283, 284, 285(part), 286, 287(part), 289(part), 321(part), 322(part), 325(part)	oil, gas, frs, coa, omn
008 Seafood preparations	1512x	011, 012(part), 016, 017(part), 036(part), 091(part), 211(part), 212, 291(part), 311(part), 411(part), 431(part)	omt, cmt
009 Fruit & vegetable preparations	1513x, 15491, 15492	012(part), 035, 036(part), 037 054(part), 056(part), 057(part), 058(part), 059, 062(part), 098(part), 292(part)	ofd
010 Oils & fats	1514x	091(part), 411(part), 421, 422, 431(part)	ofd
011 Dairy products	1520x	022, 023, 024, 111(part)	vol
012 Mill & starch products	15311, 15312, 15314, 15319, 15321, 15329, 15330	046, 047, 048(part), 056(part), 072(part), 081(part), 223(part), 311(part)	mil
013 Spices	15313, 15493	075(part)	per
014 Biscuits	15411	048 (part)	ofd
015 Bread & Confectionery	15412, 15419	048(part)	ofd
016 Sugar & sugar products	15322, 1542x, 15433	061(part), 062(part)	sg

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Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
017 Chocolate & chocolate products	15431, 15432, 15439	048 (part), 072(part), 073, 098(part)	ofd
018 Noodles & related products	15440	048 (part), 098(part)	ofd
019 Coffee & tea	15451, 15452, 15453	071, 074	ofd
020 Other food preparations	15454, 15494, 15495, 15499	017(part), 048(part), 054(part), 058(part), 098(part), 287(part), 292(part), 551(part), 592(part)	ofd
021 Softdrinks	15496, 1554x	098(part), 111(part), 112(part)	ofd
022 Alcoholic drinks	15510, 15520, 15530	112(part)	b_t
023 Tobacco products	1600x	112(part)	b_t
024 Yarn & fabrics	1710x, 17301	122	tex
025 Garments	17303, 18101, 18102, 18103, 18104	266(part), 267(part), 268(part), 321(part), 651(part), 652, 653, 654, 655, 656(part), 657(part), 658(part)	wap
026 Millinery & other wearing apparel	17302, 17309, 18106, 18109	269, 322(part), 841(part), 842(part), 843(part), 844(part), 845(part)	wap
027 Tailoring & dressmaking	18105	845(part), 846(part), 848(part)	wap
028 Textile articles	1721x, 17220, 17230, 17290	322(part)	tex
029 Footwear	1920x	321(part), 656(part), 657(part), 658(part), 659, 775(part), 821(part), 899(part)	lea
030 Leather & fur products	1820x, 19110, 1912x	851	lea
031 Wood & wooden products	2010x, 2021x, 2022, 20229, 2023x, 2029x, 34996(part), 34997(part),	211(part), 611, 612, 613, 831, 841(part), 842(part), 843(part), 844(part), 845(part), 846(part), 848(part)	lum
032 Wooden furniture & fixtures	20221, 34101, 34102, 34104(part), 34105,	244, 245, 246, 247, 248(part), 292(part), 633, 634(part), 635(part)	omf
033 Paper & paper products	21010, 2102x, 2109x	248(part), 635(part), 821(part)	ppp
034 Newspapers, books & magazines	22101, 22102, 22103, 22211, 22222, 22229	251, 634(part), 641, 642(part), 684(part), 342(part), 892(part)	ppp

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Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
035 Other printing	22212, 22213, 22214, 22219, 22221	322(part), 342(part), 642(part), 892(part), 894(part)	ppp
036 Petroleum & petroleum products	10001, 23100, 23200, 23300	333, 334, 335(part), 342(part), 343, 345	p_c
037 Industrial chemicals & gases	2431x, 24395	274(part), 285(part), 325(part), 335(part), 411(part), 511(part), 512(part), 513(part), 514(part), 515(part), 516(part), 522(part), 523, 524, 597(part), 598(part), 524, 597(part), 598(part)	crp
038 Petrochemicals & products petrochemical products	24101, 24102, 24109	511(part), 512(part), 513(part), 514(part), 516(part)	crp
039 Polymers & manmade fibers	24103, 24350	232(part), 266(part), 267(part), 571, 572, 573, 574, 575, 579, 651(part)	tex
040 Pharmaceutical products	2420x	061(part), 514(part), 515(part), 516(part), 541, 542, 598(part)	crp
041 Toiletries & cosmetics	24342, 24343	352, 551(part), 553(part)	crp
042 Cleaning & polishing preparations	24341, 24344	554, 591(part), 598(part)	crp
043 Paints	2433x	533(part), 598(part)	crp
044 Food chemicals & additives	24394, 24397	081(part), 514(part), 551(part)	crp
045 Other chemical products	2432x, 24391, 24392, 24393, 24396, 24398, 24399, 34992	272, 514(part), 522(part), 525, 531, 532, 533(part), 553(part), 562, 591(part), 592(part), 593, 597(part), 598(part), 598(part), 882, 895(part), 899(part)	crp
046 Processing of rubber & natural gums	2511x	231, 232(part), 292(part)	crp
047 Rubber products	2512x, 2519x	621, 625, 629, 657(part)	crp
048 Plastic precision products	25216	893(part)	crp
049 Other plastic products	25211, 25212, 25213, 25214, 25215, 25217, 25218, 25219, 25220, 34104(part), 34109(part), 34996(part), 34997(part)	893(part), 899(part)	

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Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
050 Non structural ceramic wares	2691x	663(part), 666, 812(part)	mmm
051 Glass & glass products	26100	664(part), 665	mmm
052 Fiberglass & fiberglass products	26992	651(part), 664(part)	mmm
053 Cement	26930	661(part)	mmm
054 Concrete products	26941, 26949, 26950	273(part), 661(part), 663(part), 821(part)	mmm
055 Bricks & earth baked products	2692x	662	mmm
056 Non-metallic mineral products	26991, 26993, 26994, 26999	277, 278(part), 335(part), 369, 661(part), 663(part), 773(part)	mmm
057 Basic iron & steel	2710x, 27301, 28919(part), 28998(part)	278(part), 381(part), 671, 672(part), 673, 674, 675, 676(part), 699(part)	i_s
058 Non-ferrous basic metals	2720x, 27302, 28919(part), 28998(part)	287(part), 288, 289(part), 672(part), 681, 682(part), 683(part), 684(part), 685(part), 686(part), 687(part), 689, 971(part), 821(part), 872(part)	nfm
059 Metal furniture	34103	676(part), 677, 679(part), 682(part), 683(part), 684(part), 685(part), 686(part), 687(part), 691, 699(part), 811	fmp
060 Structural metal products	2811x, 28131, 28998(part)	678, 682(part), 693, 776(part)	fmp
061 Non-insulated cable products	2894x	692	fmp
062 Metal containers	28120, 2895x	381(part)	fmp
063 Treatment & coating or metals	2892x	679(part), 682(part), 684(part), 694, 699(part), 747, 894(part)	fmp
064 General hardware	28939, 28993, 28994, 28995, 29122, 29129(part)	381(part), 686(part), 699(part), 961, 971(part)	fmp
065 Metal stampings	28911, 28912, 28913, 28914, 28915	684(part), 695(part), 699(part), 728(part)	fmp
066 Metal precision components	28997	748(part), 759(part), 764(part), 776(part), 785(part)	fmp

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Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
067 Other metal products	28139, 28931, 28932, 28991, 28992, 28996, 28999, 29131, 29260, 34912, 34996(part), 34997(part)	695(part), 696, 697(part), 699(part), 741(part), 746, 748(part), 749(part), 759(part), 775(part), 812(part), 891, 895(part)	fmp
068 Computers & computer peripheral equipment	31411, 31415, 31416, 31419	751(part), 752(part), 759(part), 764(part)	ele
069 Disk drives	31412, 31413, 31414	752(part)	ele
070 Microphones, loudspeakers & amplifiers	31303	764(part)	ele
071 Radios & sound recorders	31301, 31304, 31306	760, 762, 763 (part)	ele
072 Television, video sets & disc players	31302, 31305, 31309	761, 763(part), 764(part)	ele
073 Semi-conductors	3111x	384(part), 776(part)	ele
074 Electron tubes	31191, 31196, 31197	764(part), 776(part)	ele
075 Capacitors & resistors	31192, 31193	771(part), 772(part), 775(part), 778(part)	ele
076 Printed circuit boards	31194, 31195	384(part), 772(part)	ele
077 Communication equipment	31200, 31903	764(part), 778(part), 792(part)	ele
078 Other electronic products	31199, 3149x, 31901, 31902, 31909	384(part), 751(part), 752(part), 759(part)	ele
079 Lifting & hoisting machinery	2914x	744(part)	ome
080 Refrigerators & air-conditioners	29191	741(part), 743(part), 775(part)	ome
081 Oil rigs & oilfield machinery	29231, 29232, 29239	695(part), 723(part), 793(part)	ome
082 General engineering works	29292	382(part)	ome
083 Other industrial machinery & equipment	29110, 29121, 29129(part), 29132, 29199, 29210, 29221, 29222, 29223, 29224, 29229, 29233, 2924x, 29250, 29291, 29293, 29294, 29295, 29296, 29299	382(part), 695(part), 711, 712, 713(part), 714(part), 718, 721, 722, 723(part), 724, 725, 726, 727, 728, 731, 733, 735, 737(part), 741(part), 742, 743(part), 744(part),	ome

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Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
083 Other industrial machinery & equipment (Contd)		745(part), 748(part), 749(part), 759(part), 778(part), 791(part)	
084 Electric motors & generators	3010x	383(part), 716(part)	ome
085 Switchgear & switchboard apparatus	30202, 30209, 30305	383(part), 772(part)	ome
086 Other electrical industrial apparatus	29225, 30201, 30900	383(part), 699(part), 716(part), 737(part), 741(part), 771(part), 778(part)	ome
087 Recorded Media	22109, 22300, 34991	390(part), 776(part), 898(part)	omf
088 Household appliances		697(part), 743(part), 775(part)	ome
089 Storage & primary batteries	3040x,	778(part)	ome
090 Electrical wires & cables	30301, 30302, 30303, 30304, 30309	383(part), 773(part)	ome
091 Lamp & lighting fixtures	30500, 34997(part)	771(part), 778(part), 813	ome
092 Land transport equipment	3310x, 33300, 3390x	385(part), 713(part), 781, 782, 783, 784, 785, 786, 791(part)	mvh
093 Building of ships & boats	33201, 33203(part)	793(part)	otn
094 Repairing of ships & boats	33202, 33203(part)	385(part)	otn
095 Marine engine & ship parts	33204	385(part), 713(part), 749(part)	otn
096 Scrap	33205, 35000	282, 385(part), 793(part)	otn
097 Aircraft	33401, 33402	385(part), 713(part), 714(part), 792(part), 899(part)	otn
098 Medical & scientific instruments	3211x, 3212x, 32130	745(part), 774, 872(part), 873, 874, 899(part)	ome
099 Photographic & optical goods	3220x	764(part), 871, 881, 883, 884	ome
100 Watches & clocks	3230x	885	ome
101 Toys & recreational goods	34930, 3494x	894(part)	omf
102 Mattresses	34106	821(part)	omf
103 Jewelry	34911, 34919, 34998	667, 897	omf

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Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
104 Umbrellas	34993	899(part)	omf
105 Other manufacturing	29400, 34920, 34994, 34995, 34999	390(part), 697(part), 751(part), 895(part), 896, 898(part), 899(part)	omf
106 Electricity	40100	351	ely
107 Gas	40200	342(part), 343, 345	gdt
108 Water	41000, 42000		wtr
109 Building constructions	4521x, 45230, 45242(part), 45243, 45244(part), 45249(part), 45291, 45292, 45301, 45302(part), 45303, 45304, 45305, 45306, 45307, 45308(part), 45309, 45401(part), 45402(part), 45403(part), 45404(part), 45405(part), 45409(part)		cns
110 Other construction	4510x, 4522x, 45241, 45242(part), 45244(part), 45249(part), 45299, 45302(part), 45308(part), 45401(part), 45402(part), 45403(part), 45404(part), 45405(part), 45409(part)		cns
111 Wholesale & retail trades	50100, 5021x, 5022x, 5029x, 5031x, 5032x, 5033x, 5034x, 5035x, 5036x, 5037x, 5039x, 5041x, 5042x, 5043x, 5049x, 5051x, 5052x, 5059x, 5061x, 5062x, 5091x, 50920, 5093x, 5099x, 5110x, 5120x, 5131x, 5132x, 5141x, 5142.x, 5143x, 5144x, 5145x, 5145x, 5147x, 5148x, 5149, 51500, 5160x, 71309(part)		trd
112 Food & beverage services	5521x, 5522x, 55230, 55240, 55290		trd
113 Accommodation services	55110, 5512x		trd
114 Passenger transport by land	60102, 6021x		otp
115 Freight transport by land	6023x, 60300, 63209(part)		otp
116 Water transport	61101, 61109, 61201, 61202, 61209(part)		wtp
117 Supporting services to water transport	61102, 63310(part), 63321, 63322, 63325, 63326, 63327, 63328, 63329(part)		otp

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Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
118 Port operation services	63323, 63324		otp
119 Air transport	62001, 62009		otp
120 Supporting services to air transport	62002, 63401, 63402, 63405, 63409		otp
121 Airport operation services	63403, 63404		otp
122 Warehousing services	6310x		
123 Other freight transport	63521, 64120		otp
124 Sight-seeing & tourism	60220, 61103, 61209(part), 63511		otp
125 Other transport services	60101, 63512(part), 63519(part), 63522, 63529, 63901, 63909(part)		otp
126 Crane & container services	63523, 63524		otp
127 Communications	64110, 64211, 64212, 64213(part), 6422x, 64240(part), 64290(part)		crmn
128 Life insurance	66101, 66103(part), 66201, 66203(part)		isr
129 General & other insurance	66102, 66103(part), 66104, 66202, 66203(part), 66300, 66400, 66901, 66902, 66903, 66904, 66909(part)		isr
130 Banks & finance companies	65114, 6512x, 6513x, 6514x, 65150, 65929, 65991		ofi
131 Other financial services	65111, 65112, 65113, 65190, 65910, 65921, 64922(part), 65923, 65925, 65926, 65931, 65932, 65933, 65934(part), 65939, 6594x, 6595x, 65992x, 65993, 65999		ofi
132 Real estate	63201, 70101(part), 70102, 70103, 70109(part), 70201, 70203(part), 70204(part), 70205, 74110		obs
133 Legal services			obs
134 Accounting & secretarial services	7412x, 74961, 74962, 74963, 74964, 74969		obs

Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
135 Information technology	72100, 7220x, 7230x, 7240x, 72501, 72901, 72902, 72909(part)		obs
136 Architectural & engineering services	74211, 74212, 74213, 74219, 74220		obs
137 Petroleum & mining consultants	74214		obs
138 Employment & labor contracting	7491x		obs
139 Advertising & exhibitions	74300, 74981, 74982		obs
140 Leasing of machinery & equipment	45500, 71111, 71119, 71120, 71130, 71210, 7122x, 7129x, 72301, 71302		obs
141 Management consultants	74130, 74141, 74142, 74143, 74144, 74149(part)		
142 Other business & technical services	72502, 73100(part), 73200(part), 74950, 74965, 74971(part), 74972, 74991, 74992, 74993, 74994, 74995, 74996, 74997, 74998, 74999(part), 92146, 92147, 92148, 92149(part)		obs
143 Producers of government services	63209(part), 63310(part), 63329(part), 64213(part), 64240(part), 64290(part), 72909(part), 74149(part), 75111, 75119(part), 75191(part), 75199, 75210(part), 7522x, 75231, 75232, 75233, 75234, 75235, 75239(part), 80102(part), 80103(part), 80201(part), 80203(part), 80301(part), 80202(part), 80909(part), 85322(part), 85323(part), 85324, 85325(part), 85326, 85327(part), 85329(part), 91110(part), 91914(part), 91919(part), 92312(part), 92391(part)		osg
144 Security services	74921, 74922, 74929		obs
145 Education	80101(part), 80102(part), 80103(part), 80104(part), 80201(part), 80202, 80203(part), 80204(part),		osg

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Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
145 Education (Contd)	80209(part), 80301(part), 80901, 80902(part), 80903, 80904, 80905, 80909(part)		
146 Medical & health services	85110(part), 85121(part), 85122(part), 85123(part), 85124, 85191(part), 85192(part), 85199(part), 85200		osg
147 Environmental health services	70101(part), 74931, 74939, 9000x		obs
148 Cinema services	92111, 92112, 92121		ros
149 Broadcasting & entertainment services	6423x, 71303, 71309(part), 92114, 92129, 92131, 92132, 92141, 92142, 92143, 92144, 92145, 92149(part), 92192, 92199(part), 92399(part)		ros
150 Other recreational services	71309(part), 92191, 92199(part), 92210, 92221, 92222, 92229(part), 92230(part), 92291, 92311(part), 92312(part), 92313(part), 92319, 92391(part), 92392, 92393, 92394, 92399(part)		ros
151 Personal & household services	71304, 74941, 74949, 85310(part), 85321(part), 85322(part), 85323(part), 85325(part), 85328(part), 85329(part), 92113, 9331x, 9332x, 93330, 93391, 93392, 93393, 93394, 93395, 93396, 93399(part), 95009(part)	291(part)	ros
152 Repairs of household goods	93202, 93203, 93204, 93205, 93206, 93207, 93209		trd
153 Repairs of road transport equipment	9310x, 93201		trd
154 Domestic services & non-profit bodies	63512(part), 63519(part), 63909(part), 65922(part), 65924, 65934(part), 66909(part), 70109(part), 70202, 70203(part), 70204(part), 70209(part), 71309(part), 73100(part), 73200(part), 74971(part), 74999(part), 75119(part), 75191(part), 75210(part), 75239(part), 80101(part), 80104(part), 80105, 80201(part), 80203(part), 80204(part), 80209(part), 80301(part), 80902(part), 80909(part), 85110(part),	385(part)	osg

Table 11.G.A1 Mapping Sectors from Singapore I-O Table with GTAP Sectors (Contd)

Industry/Commodity Classification	Singapore Standard Industrial Classification 1996	Singapore Trade Classification (SITC R(3))	GTAP Sector Classification (GSC2)
154 Domestic services and non-profit bodies (Contd)	85121(part), 85122(part), 85123(part), 85191(part), 85192(part), 85199(part), 85310(part), 85321(part), 85322(part), 85323(part), 85325(part), 85327(part), 85328(part), 85329(part), 91110(part), 91120, 91200, 91911, 91912, 92913, 91914(part), 91920, 9199x, 92149(part), 92199(part), 92230(part), 92299(part), 92311(part), 92312(part), 92313(part), 92391(part), 92399(part), 93399(part), 95001, 95002, 95009(part)		
155 Ownership of dwellings			dwe