

Philippines

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1. Basic Documentation

- a. Data Source: 2000 Input-Output Table of the Philippines (National Statistical and Coordination board)
- b. Reference Year: 2000
- c. Units: In millions of Pesos
- d. Peso/US \$ Exchange Rate (2000): January 2000 (P40.4266-1US\$) – Lowest Level
June 2000 (P44.35574-1US\$)
December 2000 (P49.8962-1US\$) – Highest Level
Average in 2000: (P44.1938-1US\$)
Source: Bangko Sentral ng Pilipinas
(Central Bank of the Philippines)
<http://www.bsp.gov.ph/statistics/spei/tab12.htm>
- e. Commodity by Commodity: Yes
- f. Valuation: Producers' prices

2. Data Structure

- a. 240 x 240 sectors
- b. No land data
- c. Inconsistencies/Problems: Import Duties not disaggregated by industry.
- d. Changes made: Capital = Net Operating Surplus + Depreciation
(Capital Consumption Allowance)

3. Procedure for Disaggregating Import Tariff (See Appendix 1 for details)

- Step A: Took the import volume by sector from the I-O table.
- Step B: Year 2000 Weighted Applied Sectoral Average Tariff Rate (WASATR) by I-O sector obtained from the Philippine Tariff Commission.
- Step C: **$C = A * B$**
Multiplied import volume in the I-O table by WASATR to get computed tariff revenue by I-O Sector
- Step D: Took the sum of computed tariff revenue in Step B. (87,557,002 Pesos)

- Step E: Import tariff revenue from the I-O table is 95,245,000 Pesos
- Step F: **$F = C \cdot (E/D)$**
Rescaled computed tariff revenue in step B by the import tariff revenue in the I-O table.
- Step G: Took the sum of the adjusted computed tariff revenue
Adjusted computed tariff revenue is now equal to Import tariff revenue from the I-O table (95,245,000 Pesos)
- Step H: Computed for the new estimate tariff rate by I-O sector
- Step I: **$I = A - F$**
Deducted computed Tariff in step F from import volume in Step A to get net import.

Additional Check: The sum of Income components of GDP is 4061,771,141 million pesos
The sum of all Final demand components of GDP
($GDP = C + I + G + DS - Imports - Import\ Tariff$)
is 4061,771,141 million pesos

4. Improvements Over Last I-O Table in GTAP Data Base

- New 2000 base year (1988 in current GTAP data base)

5. Mapping

- 55 out of 57 GTAP sectors were mapped;
- GTAP sector Wol was not disaggregated from Other Animal products in the Philippine I-O table
- GTAP sectors Oil and Gas were not disaggregated from the aggregated Oil and Gas sector in the Philippine I-O table
- See Appendix 2 for detailed mapping Information

6. Agricultural Disaggregation

- No disaggregation done
- Land and Capital not disaggregated

7. *Sign and Balance Conditions*

- All sign conditions of the original I-O table satisfied (see Table 1)
- Balance conditions acceptable (see Table 1)
- Balance problems due to rounding errors when copying data from Excel and pasting to ViewHAR. In Excel, the I-O data were up to 8 decimal places.

8. *Others*

- Government purchases from OGS sector
- Dwelling's input is primarily from capital
- Dwelling sold to households

9. *Software and Programs Used*

- GEMPACK
- Batch programs obtained from I-O Table course in Helsinki

10. *Current Problems*

- Flags in Sign SDOM—Non inventory domestic usage—(dgstep2.har)
- Table 2 Sales less Cost
 - o Initial = 3.37 — (dgstep2.har)
 - o Final = 41.79 — (dgstep2.har)
- Difference between GDP Income and GDP Final demand = 32 — (dgstep1.har)
- No Difference between GDP Income and GDP Final demand — (dgstep4.har)
- Other checks not yet made...

Tables

Table 1. Balance and Sign check (taken from *dgstep0.har*)

OSEC	BALANCE	I-OSGN (Flag 0 – no sign problem; 1 otherwise)
1 Paddy	-1.83156	0
2 Corn	-1.15204	0
3 Coconut	0.064911	0
4 Banana	-0.84184	0
5 Sgr_b	-0.05557	0
6 VegOil	-0.17228	0
7 Rootcrop	-0.51301	0
8 Pineap	0.001875	0
9 Mango	0.212757	0
10 Fruits	-0.04851	0
11 OFruits	0.085669	0
12 Tobacco	-0.01709	0
13 Fibcrp	0.025422	0
14 OFibcrp	0.148491	0
15 Coffee	-0.11975	0
16 Cocoa	-0.00976	0
17 Rubber	-0.00151	0
18 HerbPlnt	0.043505	0
19 Ocrops	-0.71647	0
20 AgServ	-0.06797	0
21 Hog	-0.67891	0
22 Cattle	-0.15411	0
23 Buffalo	-0.04143	0
24 Olivestk	0.050259	0
25 Chicken	1.395507	0
26 Poultry	0.029712	0
27 Egg	0.399057	0
28 FishOc	0.429024	0
29 Fishland	-0.11322	0
30 Pearl	0.087831	0
31 Seaweed	0.094545	0
32 OFish	-1.54005	0
33 For	0.391269	0
34 Copper	0.601572	0
35 Gold	-0.13434	0
36 MinChrom	0.002115	0
37 MinNikel	0.008572	0
38 MinOMetal	0.050571	0
39 Quarry	-0.04065	0
40 MinCoal	-0.42947	0

OSEC	BALANCE	I-OSGN (Flag 0 – no sign problem; 1 otherwise)
41 MinOilNtGas	-3.58989	0
42 MinONnMtl	-0.16365	0
43 MeatSlaught	0.215332	0
44 MeatProcess	-0.77106	0
45 MilkProcess	0.569781	0
46 Butter	0.072424	0
47 IceCream	0.046865	0
48 DairyOther	0.089996	0
49 FruitsVege	-0.53053	0
50 FishCan	-0.03943	0
51 FishOther	1.324085	0
52 CocoOil	0.502275	0
53 VegeOil	-0.22157	0
54 RefCocoOil	0.497561	0
55 RiceCrnMill	6.511887	0
56 FlourMill	0.419304	0
57 Bakery	-0.96798	0
58 Noodles	-0.16052	0
59 SugarMill	0.467136	0
60 Confection	-0.14661	0
61 DesCoconut	0.07967	0
62 Ice	-0.03634	0
63 CoffeeRoast	0.055085	0
64 AnimalFeeds	-0.13742	0
65 Starch	-0.07821	0
66 FlavorExtr	-0.01973	0
67 FoodOther	1.122921	0
68 LiquorWine	-0.06291	0
69 Malt	-0.7913	0
70 Softdrinks	0.482374	0
71 BotldWater	-0.24172	0
72 Cigarette	-1.39773	0
73 TobaccoCig	0.003518	0
74 TobacLeaf	0.202522	0
75 Textile	0.196783	0
76 Fabric	0.522341	0
77 Hosiery	-0.26539	0
78 TextXWear	0.348543	0
79 Carpets	0.13048	0
80 Rope	0.057882	0
81 Handicraft	-0.18184	0
82 Leather	0.045296	0
83 Vinyl	-0.02635	0
84 Tailoring	-0.26833	0
85 RTW	4.981578	0

OSEC	BALANCE	I-OSGN (Flag 0 – no sign problem; 1 otherwise)
86 Embroidery	0.017419	0
87 ApparelFoot	-0.02148	0
88 LeathrFoot	-0.02129	0
89 Wood	-0.17604	0
90 Plywood	0.039755	0
91 Hardboard	-0.00212	0
92 WoodDry	-0.08293	0
93 Millwork	0.171003	0
94 WoodCane	0.016574	0
95 WoodCarv	0.291872	0
96 WoodMisc	-0.05338	0
97 WoodFurn	0.423206	0
98 FurnRepRat	-0.01606	0
99 OFurnRep	-0.12234	0
100 PulpPaper	-0.49083	0
101 PaperBoard	0.06385	0
102 OPaperBoard	0.121827	0
103 Newspaper	0.001529	0
104 BookPrint	-0.04032	0
105 Printing	-0.17219	0
106 LeatherTann	-0.05315	0
107 OLeather	0.223778	0
108 RubberTire	0.261979	0
109 RubberFootw	-0.148	0
110 RubberNEC	0.073238	0
111 BasicChemls	1.373837	0
112 Fertilizers	-0.05362	0
113 Resins	0.423091	0
114 Pesticides	0.19467	0
115 Paints	0.048946	0
116 Drugs	0.02145	0
117 Soaps	0.468171	0
118 Perfumes	-0.202	0
119 MiscChemls	-0.37083	0
120 PlstcFurn	-0.38682	0
121 RefPetrol	0.017204	0
122 MiscPetrol	0.594548	0
123 Pottery	-0.05806	0
124 Glass	0.137106	0
125 GlassCont	-0.00065	0
126 GlassOther	0.002133	0
127 Cement	0.559874	0
128 Clay	0.11311	0
129 Concrete	0.009769	0
130 ManNnMetal	-0.06346	0

OSEC	BALANCE	I-OSGN (Flag 0 – no sign problem; 1 otherwise)
131 SteelFurna	-0.03291	0
132 IronSteel	-1.2398	0
133 Smelting	-0.42101	0
134 NonFer	-0.02772	0
135 Cutlery	0.03156	0
136 MetalProds	0.318659	0
137 MetlContain	-0.36174	0
138 MetlEngrav	0.011082	0
139 WireNails	-0.03113	0
140 OtherWire	0.131429	0
141 LightNnElec	0.081036	0
142 FabricMetal	-0.25442	0
143 AgriMach	0.02884	0
144 MtlWdMach	-0.68277	0
145 Engines	0.230433	0
146 OfcMachs	3.661377	0
147 PmpsAirCon	0.453302	0
148 NnElecMachs	-0.0144	0
149 ElecMacs	-4.44048	0
150 RadioTVmach	-0.46653	0
151 CommEquip	-0.22405	0
152 RadioParts	-4.76319	0
153 ApplHouse	0.608976	0
154 SemiCond	-3.29734	0
155 Batteries	0.320605	0
156 Cables	0.094958	0
157 WireCond	1.006807	0
158 ElecLamps	0.090229	0
159 ShipsBoat	-0.18623	0
160 MotorVehcls	-2.14769	0
161 MotorAlter	-0.0386	0
162 MotorParts	-1.90227	0
163 MotoBike	0.354398	0
164 MachRebuild	-0.15426	0
165 ScientMach	0.026926	0
166 PhotoOptic	0.188998	0
167 Watch	0.00433	0
168 FurnRepMet	-0.02841	0
169 Jewelry	0.745949	0
170 MusicInstru	0.004413	0
171 SportAthlet	-0.11339	0
172 SurgDental	-0.13579	0
173 OpthalGoods	0.160816	0
174 Toys	-0.09424	0
175 OfcSupplies	0.264248	0

OSEC	BALANCE	I-OSGN (Flag 0 – no sign problem; 1 otherwise)
176 ManufacNEC	-1.28265	0
177 Construct	-10.0033	0
178 Electricity	2.20196	0
179 SteamGas	0.254753	0
180 Water	0.033185	0
181 Railway	0.000768	0
182 Bus	-0.44586	0
183 Taxi	0.011318	0
184 ORoadTrans	-1.67631	0
185 RentACar	-0.03539	0
186 Freight	-0.66354	0
187 SeaTransp	0.890172	0
188 InH2OTrans	-0.02186	0
189 SupportServ	-1.06064	0
190 AirTransp	0.734008	0
191 TravlAgenc	0.318314	0
192 TransNEC	-1.13236	0
193 Warehouse	0.031828	0
194 Postal	0.118303	0
195 Telephone	-0.30778	0
196 WirePhone	1.111917	0
197 Otelecom	0.205675	0
198 Trade	4.483538	0
199 MtrvhclRep	-0.14675	0
200 Banking	-4.04955	0
201 NonBank	-1.99209	0
202 Pawnshop	-0.13653	0
203 Insurance	0.322907	0
204 IsuranceNEC	0.085066	0
205 RealEstate	-0.42531	0
206 Dwellings	14.90094	0
207 PublicEduc	2.752995	0
208 PubHealth	0.157301	0
209 PubDef	-4.33459	0
210 PrivEduc	-1.75344	0
211 PrivMedic	1.681896	0
212 MedicOther	-0.02893	0
213 Legal	0.076928	0
214 ProfServs	0.046861	0
215 EngServ	-0.07687	0
216 Advertise	-0.39601	0
217 EquipRent	0.012472	0
218 cons	-0.41306	0
219 LabRecruit	0.128987	0
220 Detective	0.13236	0

OSEC	BALANCE	I-OSGN (Flag 0 – no sign problem; 1 otherwise)
221 BusActNEC	0.009715	0
222 BusOthers	-0.29259	0
223 Hotels	0.853999	0
224 OHotels	-0.03802	0
225 Restau	0.683319	0
226 CompHCons	0.009806	0
227 CompCcons	0.185795	0
228 CompOcons	0.27829	0
229 OfcRepair	0.004592	0
230 Photograph	0.061239	0
231 BPO	-0.09401	0
232 SocialWork	-0.04977	0
233 Seawage	-0.02883	0
234 FilmProd	0.013509	0
235 FilmProject	0.203246	0
236 RadioTVServ	-0.00749	0
237 Orecreation	0.453247	0
238 WashClothe	-0.27302	0
239 HairParlor	1.265075	0
240 ServicesNEC	-0.33053	0
Total	-1.59512	
241 Investment		0
242 Consumption		0
243 Government		0
244 DSTOCK		0
245 Exports		0
246 Mcif		0
247 imptax		0
248 Tar		0
Total		0

Table 2. Sales less Cost (Obtained from dgstep3.har)

	BALANCE
1 SA_PDR	-8
2 SA_WHT	-1
3 SA_GRO	-2
4 SA_V_F	0
5 SA_OSD	0
6 SA_C_B	0
7 SA_PFB	0.25
8 SA_OCR	0
9 SA_CTL	0
10 SA_OAP	0
11 SA_RMK	0
12 SA_FRS	0
13 SA_FSH	0
14 SM_COA	-0.375
15 SM_OILGAS	-5.71875
16 SM_OMN	0
17 SM_CMT	0
18 SM_OMT	0
19 SM_VOL	0
20 SM_MIL	4
21 SM_PCR	16
22 SM_SGR	0
23 SM_OFD	0
24 SM_B_T	0
25 SM_TEX	0
26 SM_WAP	0
27 SM_LEA	4
28 SM_LUM	0
29 SM_PPP	0
30 SM_P_C	0
31 SM_CRP	0
32 SM_NMM	0
33 SM_I_S	0
34 SM_NFM	0
35 SM_FMP	0
36 SM_MVH	-8
37 SM_OTN	0
38 SM_ELE	0
39 SM_OME	-32
40 SM_OMF	0
41 SS_ELY	0
42 SS_GDT	0
43 SS_WTR	0
44 SM_CNS	0
45 SS_TRD	64

	BALANCE
46 SS_OTP	0
47 SS_WTP	4
48 SS_ATP	0
49 SS_CMN	-16
50 SS_OFI	0
51 SS_ISR	0
52 SS_OBS	0
53 SS_ROS	0
54 SS_OSG	0
55 SS_DWE	16
Total	35.15625

APPENDIX

Table 1A. Tariff Disaggregation

		A	B	C	D	E	F	G	H	I
		Import (Vol)	Tariff Rate**	C = A*B Computed Tariff Revenue	$D = \sum_{i=1}^{240} C$ Total Computed Tariff Revenue	Tariff Revenue	F = C*(E/D) Adjusted Computed Revenue	Total Computed Revenue	$H = \sum_{i=1}^{240} F$ Computed New Tariff Rate	I = (A - F) New Import Volume
		I-O Table				I-O table				
1	Paddy	0	50.0%	-	87,557,002	95,245,000	-	95,245,000	50.0%	0
2	Corn	2647216	27.5%	727,984			791,906		29.9%	1855311
3	Coconut including copra making in the farm	0	10.6%	-			-		10.6%	0
4	Banana	0	15.0%	-			-		15.0%	0
5	Sugarcane including muscovado sugar done in the farm	0	41.7%	-			-		41.7%	0
6	Leafy and stem vegetables	45298	12.4%	5,599			6,090		13.4%	39208
7	Other vegetables, tubers and root crops	3391217	34.0%	1,153,014			1,254,255		37.0%	2136962
8	Pineapple	0	15.0%	-			-		15.0%	0
9	Mango	0	15.0%	-			-		15.0%	0
10	Citrus fruits	309810	11.3%	34,854			37,914		12.2%	271896
11	Other fruits and nuts	2304734	8.1%	187,605			204,078		8.9%	2100656
12	Tobacco	4512059	10.0%				490,824		10.9%	4021234

		A	B	C	D	E	F	G	H	I
		Import (Vol)	Tariff Rate**	C = A*B Computed Tariff Revenue	$D = \sum_{i=1}^{240} C$ Total Computed Tariff Revenue	Tariff Revenue	F = C*(E/D) Adjusted Computed Revenue	Total Computed Revenue	$H = \sum_{i=1}^{240} F$ Computed New Tariff Rate	I = (A - F) New Import Volume
		I-O Table				I-O table				
				451,206						
13	Abaca	43280	3.0%	1,298			1,412		3.3%	41868
14	Other fibercrops	2310232	2.0%	46,205			50,262		2.2%	2259970
15	Coffee	444552	35.0%	155,593			169,255		38.1%	275297
16	Cacao	0	3.0%	-			-		3.0%	0
17	Rubber	0	3.0%	-			-		3.0%	0
18	Ornamental/Horticultural plants/Herbal plants	79371	3.0%	2,365			2,573		3.2%	76798
19	Other agricultural crops (wheat, milled oats, cereal crops, spice crops and construction related crops)	15103276	2.0%	302,066			328,589		2.2%	14774687
20	Agricultural services (irrigation and pesticides, artificial insemination, n.e.c.)	12585	0.0%	-			-		0.0%	12585
21	Hog	39292	28.0%	11,002			11,968		30.5%	27324
22	Cattle	2417669	11.6%	281,175			305,864		12.7%	2111806
23	Carabao	0	11.6%	-			-		11.6%	0
24	Other livestock including	5043	11.6%				638		12.7%	4405

		A	B	C	D	E	F	G	H	I
		Import (Vol)	Tariff Rate**	C = A*B Computed Tariff Revenue	$D = \sum_{i=1}^{240} C$ Total Computed Tariff Revenue	Tariff Revenue	F = C*(E/D) Adjusted Computed Revenue	Total Computed Revenue	$H = \sum_{i=1}^{240} F$ Computed New Tariff Rate	I = (A - F) New Import Volume
	I-O Table					I-O table				
	dairy production			586						
25	Chicken	300938	19.4%	58,382			63,508		21.1%	237430
26	Other poultry	1509	25.5%	384			418		27.7%	1091
27	Egg production	5701	0.0%	-			-		0.0%	5701
28	Ocean fishing (including fish corals)	0	6.6%	-			-		6.6%	0
29	Inland and coastal fishing	19969	6.6%	1,320			1,436		7.2%	18533
30	Pearl culture and pearl shell gathering	202	6.6%	13			15		7.2%	187
31	Seaweeds	268184	10.3%	27,516			29,932		11.2%	238252
32	Shrimp, prawns and other aquaculture (including marine culture)	35307	10.3%	3,622			3,941		11.2%	31366
33	Forestry	49471	2.7%	1,336			1,453		2.9%	48018
34	Copper mining	9929155	3.0%	297,875			324,030		3.3%	9605125
35	Gold mining	26825	3.0%	805			875		3.3%	25950
36	Chromite mining	0	3.0%	-			-		3.0%	0
37	Nickel mining	0	3.0%	-			-		3.0%	0

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		I-O Table				I-O table				
38	Other metallic mining (including silver mining)	4612555	3.0%	138,377			150,527		3.3%	4462028
39	Stone quarrying, clay and sand pits	1606483	3.5%	55,584			60,465		3.8%	1546018
40	Coal mining	6643492	5.0%	332,175			361,341		5.4%	6282151
41	Crude oil and natural gas	134811645	1.5%	2,022,175			2,199,733		1.6%	132611912
42	Other non-metallic mining (including salt mining)	2779716	3.4%	94,232			102,507		3.7%	2677210
43	Slaughtering and meat packing	116518	18.8%	21,917			23,841		20.5%	92676
44	Meat and meat products processing	7015519	37.8%	2,653,269			2,886,241		41.1%	4129278
45	Milk processing	12845885	4.8%	610,180			663,757		5.2%	12182128
46	Butter and cheese manufacturing	2933151	5.6%	163,083			177,403		6.0%	2755748
47	Ice cream, sherbets and other flavored ices	15478	10.0%	1,548			1,684		10.9%	13794
48	Other dairy products	2424076	11.3%	272,709			296,654		12.2%	2127422
49	Canning and preserving of fruits and vegetables	4846419	10.9%	529,714			576,225		11.9%	4270194
50	Fish canning	2763139	11.9%	328,537			357,385		12.9%	2405754
51	Fish drying, smoking and manufacturing of other seafood products	48749	12.9%	6,269			6,820		14.0%	41930

		A	B	C	D	E	F	G	H	I
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		I-O Table				I-O table				
52	Production of crude coconut oil, copra cake and meal	0	15.0%	-			-		15.0%	0
53	Other crude vegetable oil, fish and other marine oils and fats (except coconut oil)	8114986	5.9%	481,219			523,472		6.5%	7591514
54	Manufacture of refined coconut oil and vegetable oil	1996526	6.7%	132,769			144,427		7.2%	1852100
55	Rice and corn milling	5448414	44.3%	2,413,103			2,624,987		48.2%	2823428
56	Flour, cassava and other grains milling	400344	8.1%	32,228			35,057		8.8%	365287
57	Manufacture of bakery products except noodles	498005	21.9%	109,163			118,748		23.8%	379257
58	Noodles manufacturing	414041	15.0%	62,106			67,559		16.3%	346482
59	Sugar milling and refining	2453515	24.0%	588,844			640,547		26.1%	1812968
60	Manufacture of cocoa, chocolate and sugar confectionery products	2670529	9.0%	240,348			261,451		9.8%	2409077
61	Manufacture of desiccated coconut	0	12.0%	-			-		12.0%	0
62	Manufacture of ice, except dry ice	0	10.0%	-			-		10.0%	0
63	Coffee roasting and processing	249249	50.5%	125,871			136,923		54.9%	112326

		A	B	C	D	E	F	G	H	I
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		I-O Table				I-O table				
64	Manufacture of animal feeds	4744838	7.0%	332,139			361,302		7.6%	4383535
65	Manufacture of starch and starch products	1296496	9.2%	119,018			129,469		10.0%	1167027
66	Manufacture of flavoring extracts, mayonnaise and food coloring products	411819	7.3%	30,104			32,747		8.0%	379071
67	Miscellaneous food products	5457994	10.6%	580,731			631,722		11.6%	4826272
68	Alcoholic liquors and wine	1798646	9.4%	169,612			184,505		10.3%	1614141
69	Malt liquors and malt	1279806	8.9%	113,647			123,626		9.7%	1156180
70	Softdrinks and carbonated water	1115013	11.3%	125,439			136,453		12.2%	978560
71	Bottling of Mineral Water	20563	11.3%	2,313			2,517		12.2%	18047
72	Cigarette manufacturing	1681201	10.0%	168,120			182,882		10.9%	1498319
73	Cigar, chewing and smoking tobacco	31257	10.0%	3,126			3,400		10.9%	27857
74	Tobacco leaf flue-curing and redrying	6151	10.0%	615			669		10.9%	5482
75	Textile, spinning, weaving, texturizing and finishing	28589662	9.3%	2,664,556			2,898,520		10.1%	25691142
76	Fabric knitting mills	17330761	11.1%	1,930,647			2,100,168		12.1%	15230592

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		I-O Table				I-O table				
77	Hosiery, underwear and outerwear (knitted)	51652	19.3%	9,984			10,861		21.0%	40791
78	Manufacture of made-up textile goods except wearing apparel	1031826	15.6%	160,758			174,874		16.9%	856952
79	Manufacture of carpets and rugs	271811	19.6%	53,248			57,923		21.3%	213887
80	Cordage, rope, twine and net manufacturing	153287	16.0%	24,526			26,679		17.4%	126608
81	Manufacture of articles made of native materials	0	17.5%	-			-		17.5%	0
82	Manufacture of artificial leather and impregnated and coated fabrics	1933091	9.6%	186,350			202,713		10.5%	1730378
83	Manufacture of fiber batting, padding, upholstery fillings including coir, linoleum and other hard surfaced floor coverings	0	10.1%	-			-		10.1%	0
84	Custom tailoring and dressmaking shops	0	20.0%	-			-		20.0%	0
85	Manufacture of ready- made clothing	1519209	19.9%	302,626			329,199		21.7%	1190010
86	Embroidery establishments	71860	19.7%	14,156			15,399		21.4%	56460
87	Manufacture of other wearing apparel except footwear	671139	17.6%	117,986			128,346		19.1%	542793

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		I-O Table				I-O table				
88	Manufacture of leather footwear and footwear parts	1442957	13.3%	191,913			208,764		14.5%	1234192
89	Sawmills and planing of wood	3225092	7.1%	230,272			250,491		7.8%	2974601
90	Manufacture of veneer and plywood	2662057	14.3%	380,940			414,389		15.6%	2247668
91	Manufacture of hardboard and particle board	0	20.0%	-			-		20.0%	0
92	Wood drying and preserving plants	0	7.9%	-			-		7.9%	0
93	Millwork plants	95541	8.2%	7,863			8,553		9.0%	86987
94	Manufacture of wooden and cane containers and small cane wares	290925	11.8%	34,184			37,185		12.8%	253740
95	Manufacture of wood carvings	7630	12.5%	954			1,037		13.6%	6592
96	Manufacture of misc wood, cork and cane products	2126210	8.5%	181,153			197,059		9.3%	1929151
97	Manufacture and repair of wooden furniture including upholstery	667456	15.9%	106,059			115,371		17.3%	552085
98	Manufacture and repair of rattan furniture including upholstery	4138	20.0%	828			900		21.8%	3238
99	Manufacture and repair of other furnitures and	956706	13.4%	128,486			139,767		14.6%	816939

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	I-O Table					I-O table		Revenue		
	fixtures, n.e.c.									
100	Manufacture of pulp, paper and paperboard	15832495	7.0%	1,108,275			1,205,587		7.6%	14626908
101	Manufacture of paper and paperboard containers	750539	8.3%	62,070			67,520		9.0%	683019
102	Manufacture of articles of paper and paperboard	2702060	7.2%	194,818			211,925		7.8%	2490135
103	Newspapers and periodicals	117699	7.0%	8,239			8,962		7.6%	108736
104	Printing and publishing of books and pamphlets	2392640	7.8%	186,626			203,013		8.5%	2189627
105	Commercial and job printing and other allied industries	77748	9.7%	7,518			8,178		10.5%	69570
106	Tanneries and leather finishing	1559426	4.8%	74,073			80,577		5.2%	1478849
107	Manufacture of products of leather and leather substitutes except footwear and wearing apparel	378262	12.9%	48,720			52,998		14.0%	325264
108	Rubber tire and tube manufacturing	3530310	8.2%	289,485			314,904		8.9%	3215406
109	Manufacture of rubber footwear	904104	13.1%	118,438			128,837		14.3%	775267
110	Manufacture of other rubber products, n.e.c.	3660473	6.9%	253,305			275,546		7.5%	3384927
111	Manufacture of basic	29662580	3.2%				1,039,001		3.5%	28623579

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		I-O Table				I-O table				
	industrial chemicals			955,135						
112	Manufacture of fertilizers	9114814	0.6%	54,689			59,491		0.7%	9055323
113	Manufacture of synthetic resins, plastic materials and other man-made fiber except glass	25559683	5.9%	1,500,353			1,632,093		6.4%	23927590
114	Manufacture of pesticides, insecticides, etc.	3626161	2.5%	90,654			98,614		2.7%	3527547
115	Manufacture of paints, varnishes and lacquers	3473672	7.0%	243,157			264,508		7.6%	3209164
116	Manufacture of drugs and medicines	14019826	3.3%	458,448			498,703		3.6%	13521123
117	Manufacture of soap and detergents	4028660	10.8%	433,081			471,108		11.7%	3557552
118	Manufacture of perfumes, cosmetics and other toilet preparations	2707094	8.6%	231,998			252,369		9.3%	2454725
119	Manufacture of miscellaneous chemical products	21420505	4.1%	882,525			960,015		4.5%	20460490
120	Manufacture of plastic furniture, plastic footwear and other fabricated plastic products	15240051	9.0%	1,367,033			1,487,066		9.8%	13752985
121	Petroleum refineries including LPG	32149609	3.3%	1,060,937			1,154,093		3.6%	30995516
122	Manufacture of asphalt,	1063588	4.6%				53,221		5.0%	1010367

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	I-O Table					I-O table				
	lubricants and miscellaneous products of petroleum and coal			48,925						
123	Manufacture of pottery, china and earthenwares	613705	10.1%	62,168			67,627		11.0%	546078
124	Manufacture of flat glass	1626393	13.7%	223,466			243,088		14.9%	1383305
125	Manufacture of glass container	1973450	8.7%	172,085			187,195		9.5%	1786255
126	Manufacture of other glass and glass products	918156	5.3%	48,570			52,835		5.8%	865320
127	Cement manufacture	1598982	3.7%	58,683			63,835		4.0%	1535146
128	Manufacture of structural clay products	1593816	10.0%	158,585			172,509		10.8%	1421307
129	Manufacture of structural concrete products	359110	10.0%	35,911			39,064		10.9%	320046
130	Manufacture of other non-metallic mineral products, n.e.c.	501536	6.0%	30,092			32,734		6.5%	468801
131	Blast furnace and steel making furnace, steel works and rolling mills	3429250	7.7%	262,338			285,372		8.3%	3143878
132	Iron and steel foundries	35955733	8.2%	2,937,583			3,195,520		8.9%	32760213
133	Non-ferrous smelting and refining plants, rolling,	5717790	4.1%	232,142			252,526		4.4%	5465265

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	I-O Table					I-O table		Revenue		
	drawing and extrusion mills									
134	Non-ferrous foundries	12168217	5.6%	675,336			734,634		6.0%	11433583
135	Cutlery, handtools, general hardware	2648905	8.8%	232,044			252,419		9.5%	2396486
136	Structural metal products	3981519	8.6%	342,809			372,909		9.4%	3608610
137	Manufacture of metal containers	1286225	10.0%	128,623			139,916		10.9%	1146309
138	Metal stamping, coating, engraving mills	32687	9.8%	3,216			3,499		10.7%	29188
139	Manufacture of wire nails	5803028	12.2%	709,130			771,396		13.3%	5031632
140	Manufacture of other fabricated wire and cable products except insulated wire and cable	0	11.5%	-			-		11.5%	0
141	Manufacture of non-electric lighting and heating fixtures	4459307	10.0%	447,714			487,026		10.9%	3972281
142	Manufacture of fabricated metal products except machinery and equipment	2586	9.0%	232			253		9.8%	2333
143	Manufacture of agricultural machinery and equipment	880202	0.5%	4,489			4,883		0.6%	875318
144	Manufacture of metal and	48984960	2.8%				1,492,011		3.0%	47492949

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		I-O Table				I-O table				
	wood-working machinery			1,371,579						
145	Manufacture of engines and turbines, except for transport equipment and special industrial machinery and equipment	27358426	3.1%	834,432			907,700		3.3%	26450726
146	Manufacture, assembly and repair of office, computing and accounting machines	67808336	2.1%	1,390,071			1,512,127		2.2%	66296209
147	Manufacture of pumps, compressors, blowers and airconditioners	11622301	5.2%	599,711			652,369		5.6%	10969932
148	Machine shops and manufacture of non-electrical machinery and equipment, n.e.c.	6375361	5.2%	330,244			359,241		5.6%	6016120
149	Manufacture of electrical, industrial machinery and apparatus	76915013	4.7%	3,615,006			3,932,423		5.1%	72982589
150	Manufacture of radio and TV receiving sets, sound recording and reproducing equipment including records and tapes	76020191	15.2%	11,555,069			12,569,669		16.5%	63450522
151	Manufacture of communication and detection equipment	272884	4.1%	11,052			12,022		4.4%	260861

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		I-O Table				I-O table				
152	Manufacture of parts and supplies for radio, TV and communication	123531513	4.1%	5,027,733			5,469,196		4.4%	118062317
153	Manufacture of appliances and housewares	2415127	7.2%	172,923			188,107		7.8%	2227020
154	Manufacture of semi-conductor devices	329815867	4.1%	13,423,506			14,602,165		4.4%	315213702
155	Manufacture of primary cells and batteries and electric accumulators	2385625	8.5%	202,778			220,583		9.2%	2165042
156	Insulated wires and cables	10610764	9.9%	1,049,405			1,141,548		10.8%	9469216
157	Manufacture of current-carrying wiring devices, conduits and fittings	12449415	4.8%	597,572			650,042		5.2%	11799373
158	Manufacture of electrical lamps, fluorescent tubes and other electrical apparatus and supplies, n.e.c.	73838	5.8%	4,246			4,618		6.3%	69219
159	Shipyards and boatyards	153040	4.8%	7,361			8,008		5.2%	145033
160	Manufacture and assembly of motor vehicles	10060709	13.2%	1,328,014			1,444,621		14.4%	8616088
161	Rebuilding and major alteration of motor vehicles	665800	14.9%	99,138			107,842		16.2%	557957
162	Manufacture of motor vehicles parts and	36577816	6.5%	2,388,531			2,598,258		7.1%	33979558

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		I-O Table				I-O table				
	accessories									
163	Manufacture, assembly of motorcycles and bicycles	7944408	12.3%	979,546			1,065,555		13.4%	6878853
164	Manufacture, assembly, rebuilding and major alteration of railroad equipment, aircraft, and animal and hand-drawn vehicle	6004164	3.6%	214,949			233,823		3.9%	5770341
165	Manufacture of professional, scientific measuring and controlling equipment	8772971	4.0%	350,919			381,731		4.4%	8391239
166	Manufacture of photographic and optical instruments	2693413	3.1%	83,226			90,534		3.4%	2602879
167	Manufacture of watches and clocks	3201431	4.4%	140,863			153,232		4.8%	3048200
168	Manufacture and repair of furniture and fixtures, made primarily of metal	563258	15.7%	88,375			96,135		17.1%	467123
169	Manufacture of jewelry and related articles	88267	5.9%	5,225			5,684		6.4%	82583
170	Manufacture of musical instruments	209080	4.8%	10,057			10,940		5.2%	198140
171	Manufacture of sporting and athletic goods	870708	5.0%	43,797			47,642		5.5%	823066
172	Manufacture of surgical,	3583673	5.8%				227,663		6.4%	3356010

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	I-O Table					I-O table				
	dental, medical and orthopedic supplies			209,287						
173	Manufacture of ophthalmic goods	60584	5.5%	3,308			3,598		5.9%	56985
174	Manufacture of toys and dolls except rubber and plastic toys	1320418	8.8%	116,329			126,543		9.6%	1193875
175	Manufacture of stationers', artists' and office supplies	1605467	6.2%	99,218			107,930		6.7%	1497537
176	Miscellaneous manufacturing	13618770	9.0%	1,220,242			1,327,386		9.7%	12291384
177	Construction	5480211	0.0%	-			-		0.0%	5480211
178	Electricity	0	0.0%	-			-		0.0%	0
179	Steam	0	0.0%	-			-		0.0%	0
180	Water	0	0.0%	-			-		0.0%	0
181	Railway transport	104236	0.0%	-			-		0.0%	104236
182	Bus line operation	4536915	0.0%	-			-		0.0%	4536915
183	Public utility cars and taxicab operation	173431	0.0%	-			-		0.0%	173431
184	Jeepney, tricycles (motorized and non-motorized) and other road	0	0.0%	-			-		0.0%	0

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	I-O Table					I-O table		Revenue		
	transport									
185	Tourist buses and cars including chartered and rent-a-car	188125	0.0%	-			-		0.0%	188125
186	Road freight transport	0	0.0%	-			-		0.0%	0
187	Sea and coastal water transport	107531967	0.0%	-			-		0.0%	107531967
188	Inland water transport (including renting of ship with operator)	270013	0.0%	-			-		0.0%	270013
189	Supporting services to transport	3666064	0.0%	-			-		0.0%	3666064
190	Air transport	8599663	0.0%	-			-		0.0%	8599663
191	Tour and travel agencies	1543659	0.0%	-			-		0.0%	1543659
192	Activities of other transport agencies (including custom brokerage, n.e.c)	6088964	0.0%	-			-		0.0%	6088964
193	Storage and warehousing	896027	0.0%	-			-		0.0%	896027
194	Postal and courier activities	408799	0.0%	-			-		0.0%	408799
195	Telephone service includes telegraphs	8576433	0.0%	-			-		0.0%	8576433
196	Wireless	2549728	0.0%	-			-		0.0%	2549728

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	I-O Table					I-O table		Revenue		
	telecommunications			-						
197	Telecommunication services, n.e.c	0	0.0%	-			-		0.0%	0
198	Wholesale and retail trade	11446570	0.0%	-			-		0.0%	11446570
199	Repairs of motor vehicles and personal and household goods	0	0.0%	-			-		0.0%	0
200	Banking	14852751	0.0%	-			-		0.0%	14852751
201	Investment, financing and other non-banking services except pawnshops	5874822	0.0%	-			-		0.0%	5874822
202	Pawnshops	0	0.0%	-			-		0.0%	0
203	Life insurance	3358839	0.0%	-			-		0.0%	3358839
204	Non-life and other insurance activities	3800792	0.0%	-			-		0.0%	3800792
205	Real estate activities with own or leased property and contract basis	0	0.0%	-			-		0.0%	0
206	Ownership of dwellings	0	0.0%	-			-		0.0%	0
207	Public Education Services	0	0.0%	-			-		0.0%	0
208	Public Health and Welfare Services	0	0.0%	-			-		0.0%	0

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		I-O Table				I-O table				
209	Public Administration and Defense	795515	0.0%	-			-		0.0%	795515
210	Private education services	1967425	0.0%	-			-		0.0%	1967425
211	Private medical, dental and other health services	1979657	0.0%	-			-		0.0%	1979657
212	Other hospital activities and medical and dental practices, including veterinary services	15882	0.0%	-			-		0.0%	15882
213	Legal activities	2507665	0.0%	-			-		0.0%	2507665
214	Accounting, bookkeeping and auditing activities; tax consultancy	923448	0.0%	-			-		0.0%	923448
215	Architectural and engineering activities	5522058	0.0%	-			-		0.0%	5522058
216	Advertising activities	2878421	0.0%	-			-		0.0%	2878421
217	Renting of equipments	3579815	0.0%	-			-		0.0%	3579815
218	Business and management consultancy activities	7146013	0.0%	-			-		0.0%	7146013
219	Labor recruitment and provision of personnel	3338766	0.0%	-			-		0.0%	3338766
220	Investigation and security activities	0	0.0%	-			-		0.0%	0
221	Miscellaneous business activities, n.e.c.	263593	0.0%	-			-		0.0%	263593

		A	B	C	D	E	F	G	H	I
		Import (Vol)	Tariff Rate**	C = A*B Computed Tariff Revenue	$D = \sum_{i=1}^{240} C$ Total Computed Tariff Revenue	Tariff Revenue	F = C*(E/D) Adjusted Computed Revenue	Total Computed Revenue	$H = \sum_{i=1}^{240} F$ Computed New Tariff Rate	I = (A - F) New Import Volume
		I-O Table				I-O table				
222	Other business services	4555921	0.0%	-			-		0.0%	4555921
223	Hotels and motels	7291247	0.0%	-			-		0.0%	7291247
224	Other short-stay accommodation, n.e.c.	300947	0.0%	-			-		0.0%	300947
225	Restaurants, bars, canteens and other eating and drinking places	39299147	0.0%	-			-		0.0%	39299147
226	Computer hardware consultancy	232837	0.0%	-			-		0.0%	232837
227	Computer software consultancy including computer supply	2893869	0.0%	-			-		0.0%	2893869
228	Other computer related activities	5439014	0.0%	-			-		0.0%	5439014
229	Maintenance and repair of office, accounting and computing machinery	0	0.0%	-			-		0.0%	0
230	Photographic activities Call/Contact centers, Business Processing outsourcing and other IT- based services	0	0.0%	-			-		0.0%	0
231		0	0.0%	-			-		0.0%	0
232	Social Work	0	0.0%	-			-		0.0%	0

		A	B	C	D	E	F	G	H	I
		Import (Vol)	Tariff Rate**	C = A*B Computed Tariff Revenue	$D = \sum_{i=1}^{240} C$ Total Computed Tariff Revenue	Tariff Revenue	F = C*(E/D) Adjusted Computed Revenue	Total Computed Revenue	$H = \sum_{i=1}^{240} F$ Computed New Tariff Rate	I = (A - F) New Import Volume
		I-O Table				I-O table				
233	Sewage and refuse disposal, sanitation and similar activities	0	0.0%	-			-		0.0%	0
234	Motion picture and video production and distribution	4344714	0.0%	-			-		0.0%	4344714
235	Motion picture projection	121126	0.0%	-			-		0.0%	121126
236	Radio and television activities	384554	0.0%	-			-		0.0%	384554
237	Other recreational and cultural services	505389	0.0%	-			-		0.0%	505389
238	Washing and drycleaning of clothing and textile	0	0.0%	-			-		0.0%	0
239	Hairdressing and other beauty treatment	0	0.0%	-			-		0.0%	0
240	Other personal services, n.e.c.	721733	0.0%	-			-		0.0%	721733

Table 2A. Sectoral Concordance/Mapping

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
1	Palay	Paddy	PDR	SA_PDR	PDR
2	Corn	Corn	GRO	SA_GRO	GRO
3	Coconut including copra making in the farm	Coconut	OSD	SA_OSD	OSD
4	Banana	Banana	V_F	SA_V_F	V_F
5	Sugarcane including muscovado sugar done in the farm	Sgr_b	C_B	SA_C_B	C_B
6	Leafy and stem vegetables	VegOil	V_F	SA_V_F	V_F
7	Other vegetables, tubers and root crops	Rootcrop	OCR	SA_OCR	OCR
8	Pineapple	Pineap	V_F	SA_V_F	V_F
9	Mango	Mango	V_F	SA_V_F	V_F
10	Citrus fruits	Fruits	V_F	SA_V_F	V_F
11	Other fruits and nuts	OFruits	V_F	SA_V_F	V_F
12	Tobacco	Tobacco	OCR	SA_OCR	OCR
13	Abaca	Fibcrp	PFB	SA_PFB	PFB
14	Other fibercrops	OFibcrp	PFB	SA_PFB	PFB
15	Coffee	Coffee	OCR	SA_OCR	OCR
16	Cacao	Cocoa	OCR	SA_OCR	OCR
17	Rubber	Rubber	OCR	SA_OCR	OCR
18	Ornamental/Horticultural plants/Herbal plants	HerbPlnt	OCR	SA_OCR	OCR
19	Other agricultural crops (wheat, milled oats, cereal crops, spice crops and construction related crops)	Ocrops	WHT	SA_WHT	WHT
20	Agricultural services (irrigation and pesticides, artificial insemination, n.e.c.)	AgServ	FOR	SA_FRS	FRS
21	Hog	Hog	OAP	SA_OAP	OAP
22	Cattle	Cattle	CTL	SA_CTL	CTL
23	Carabao	Buffalo	CTL	SA_CTL	CTL

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
24	Other livestock including dairy production	Olivestk	OAP, RMK	SA_RMK	RMK
25	Chicken	Chicken	OAP	SA_OAP	OAP
26	Other poultry	Poultry	OAP	SA_OAP	OAP
27	Egg production	Egg	OAP	SA_OAP	OAP
28	Ocean fishing (including fish corals)	FishOc	FSH	SA_FSH	FSH
29	Inland and coastal fishing	Fishland	FSH	SA_FSH	FSH
30	Pearl culture and pearl shell gathering	Pearl	FSH	SA_FSH	FSH
31	Seaweeds	Seaweed	FSH	SA_FSH	FSH
32	Shrimp, prawns and other aquaculture (including marine culture)	OFish	FSH	SA_FSH	FSH
33	Forestry	For	FRS	SA_FRS	FRS
34	Copper mining	Copper	OMN	SM_OMN	OMN
35	Gold mining	Gold	OMN	SM_OMN	OMN
36	Chromite mining	MinChrom	OMN	SM_OMN	OMN
37	Nickel mining	MinNikel	OMN	SM_OMN	OMN
38	Other metallic mining (including silver mining)	MinOMetal	OMN	SM_OMN	OMN
39	Stone quarrying, clay and sand pits	Quarry	OMN	SM_OMN	OMN
40	Coal mining	MinCoal	COA	SM_COA	COA
41	Crude oil and natural gas	MinOilNtGas	OIL, GAS	SM_OILGAS	OIL
42	Other non-metallic mining (including salt mining)	MinONnMtl	OMN	SM_OMN	OMN
43	Slaughtering and meat packing	MeatSlaught	CMT, OMT	SM_CMT	CMT
44	Meat and meat products processing	MeatProcess	CMT, OMT	SM_OMT	OMT
45	Milk processing	MilkProcess	MIL	SM_MIL	MIL
46	Butter and cheese manufacturing	Butter	MIL	SM_MIL	MIL
47	Ice cream, sherbets and other flavored ices	IceCream	MIL	SM_MIL	MIL
48	Other dairy products	DairyOther	MIL	SM_MIL	MIL
49	Canning and preserving of fruits and vegetables	FruitsVege	OFD	SM_OFD	OFD
50	Fish canning	FishCan	OFD	SM_OFD	OFD

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
51	Fish drying, smoking and manufacturing of other seafood products	FishOther	OFD	SM_OFD	OFD
52	Production of crude coconut oil, copra cake and meal	CocoOil	VOL	SM_VOL	VOL
53	Other crude vegetable oil, fish and other marine oils and fats (except coconut oil)	VegeOil	VOL	SM_VOL	VOL
54	Manufacture of refined coconut oil and vegetable oil	RefCocoOil	VOL	SM_VOL	VOL
55	Rice and corn milling	RiceCrnMill	PCR	SM_PCR	PCR
56	Flour, cassava and other grains milling	FlourMill	OFD	SM_OFD	OFD
57	Manufacture of bakery products except noodles	Bakery	OFD	SM_OFD	OFD
58	Noodles manufacturing	Noodles	OFD	SM_OFD	OFD
59	Sugar milling and refining	SugarMill	SGR	SM_SGR	SGR
60	Manufacture of cocoa, chocolate and sugar confectionery products	Confection	OFD	SM_OFD	OFD
61	Manufacture of desiccated coconut	DesCoconut	OFD	SM_OFD	OFD
62	Manufacture of ice, except dry ice	Ice	OFD	SM_OFD	OFD
63	Coffee roasting and processing	CoffeeRoast	OFD	SM_OFD	OFD
64	Manufacture of animal feeds	AnimalFeeds	OFD	SM_OFD	OFD
65	Manufacture of starch and starch products	Starch	OFD	SM_OFD	OFD
66	Manufacture of flavoring extracts, mayonnaise and food coloring products	FlavorExtr	OFD	SM_OFD	OFD
67	Miscellaneous food products	FoodOther	OFD	SM_OFD	OFD
68	Alcoholic liquors and wine	LiquorWine	B_T	SM_B_T	B_T
69	Malt liquors and malt	Malt	B_T	SM_B_T	B_T
70	Softdrinks and carbonated water	Softdrinks	B_T	SM_B_T	B_T
71	Bottling of Mineral Water	BotldWater	B_T	SM_B_T	B_T
72	Cigarette manufacturing	Cigarette	B_T	SM_B_T	B_T
73	Cigar, chewing and smoking tobacco	TobacoCig	B_T	SM_B_T	B_T
74	Tobacco leaf flue-curing and redrying	TobacLeaf	B_T	SM_B_T	B_T

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
75	Textile, spinning, weaving, texturizing and finishing	Textile	TEX	SM_TEX	TEX
76	Fabric knitting mills	Fabric	TEX	SM_TEX	TEX
77	Hosiery, underwear and outerwear (knitted)	Hosiery	WAP	SM_WAP	WAP
78	Manufacture of made-up textile goods except wearing apparel	TextXWear	WAP	SM_WAP	WAP
79	Manufacture of carpets and rugs	Carpets	TEX	SM_TEX	TEX
80	Cordage, rope, twine and net manufacturing	Rope	TEX	SM_TEX	TEX
81	Manufacture of articles made of native materials	Handicraft	OME	SM_OME	OME
82	Manufacture of artificial leather and impregnated and coated fabrics	Leather	LEA	SM_LEA	LEA
83	Manufacture of fiber batting, padding, upholstery fillings including coir, linoleum and other hard surfaced floor coverings	Vinyl	CRP	SM_CRP	CRP
84	Custom tailoring and dressmaking shops	Tailoring	WAP	SM_WAP	WAP
85	Manufacture of ready-made clothing	RTW	WAP	SM_WAP	WAP
86	Embroidery establishments	Embroidery	TEX	SM_TEX	TEX
87	Manufacture of other wearing apparel except footwear	ApparlXFoot	WAP	SM_WAP	WAP
88	Manufacture of leather footwear and footwear parts	LeathrFoot	LEA	SM_LEA	LEA
89	Sawmills and planing of wood	Wood	LUM	SM_LUM	LUM
90	Manufacture of veneer and plywood	Plywood	LUM	SM_LUM	LUM
91	Manufacture of hardboard and particle board	Hardboard	LUM	SM_LUM	LUM
92	Wood drying and preserving plants	WoodDry	LUM	SM_LUM	LUM
93	Millwork plants	Millwork	LUM	SM_LUM	LUM
94	Manufacture of wooden and cane containers and small cane wares	WoodCane	LUM	SM_LUM	LUM

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
95	Manufacture of wood carvings	WoodCarv	LUM	SM_LUM	LUM
96	Manufacture of misc wood, cork and cane products	WoodMisc	LUM	SM_LUM	LUM
97	Manufacture and repair of wooden furniture including upholstery	WoodFurn	OMF	SM_OMF	OMF
98	Manufacture and repair of rattan furniture including upholstery	FurnRepRat	OMF	SM_OMF	OMF
99	Manufacture and repair of other furnitures and fixtures, n.e.c.	OFurnRep	OMF	SM_OMF	OMF
100	Manufacture of pulp, paper and paperboard	PulpPaper	PPP	SM_PPP	PPP
101	Manufacture of paper and paperboard containers	PaperBoard	PPP	SM_PPP	PPP
102	Manufacture of articles of paper and paperboard	OPaperBoard	PPP	SM_PPP	PPP
103	Newspapers and periodicals	Newspaper	PPP	SM_PPP	PPP
104	Printing and publishing of books and pamphlets	BookPrint	PPP	SM_PPP	PPP
105	Commercial and job printing and other allied industries	Printing	PPP	SM_PPP	PPP
106	Tanneries and leather finishing	LeatherTann	LEA	SM_LEA	LEA
107	Manufacture of products of leather and leather substitutes except footwear and wearing apparel	OLeather	LEA	SM_LEA	LEA
108	Rubber tire and tube manufacturing	RubberTire	CRP	SM_CRP	CRP
109	Manufacture of rubber footwear	RubberFootw	LEA	SM_LEA	LEA
110	Manufacture of other rubber products, n.e.c.	RubberNEC	CRP	SM_CRP	CRP
111	Manufacture of basic industrial chemicals	BasicChemls	CRP	SM_CRP	CRP
112	Manufacture of fertilizers	Fertilizers	CRP	SM_CRP	CRP
113	Manufacture of synthetic resins, plastic materials and other man-made fiber except glass	Resins	CRP	SM_CRP	CRP

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
114	Manufacture of pesticides, insecticides, etc.	Pesticides	CRP	SM_CRP	CRP
115	Manufacture of paints, varnishes and lacquers	Paints	CRP	SM_CRP	CRP
116	Manufacture of drugs and medicines	Drugs	CRP	SM_CRP	CRP
117	Manufacture of soap and detergents	Soaps	CRP	SM_CRP	CRP
118	Manufacture of perfumes, cosmetics and other toilet preparations	Perfumes	CRP	SM_CRP	CRP
119	Manufacture of miscellaneous chemical products	MiscChemls	CRP	SM_CRP	CRP
120	Manufacture of plastic furniture, plastic footwear and other fabricated plastic products	PlstcFurn	CRP	SM_CRP	CRP
121	Petroleum refineries including LPG	RefPetrol	P_C	SM_P_C	P_C
122	Manufacture of asphalt, lubricants and miscellaneous products of petroleum and coal	MiscPetrol	P_C	SM_P_C	P_C
123	Manufacture of pottery, china and earthenwares	Pottery	NMM	SM_NMM	NMM
124	Manufacture of flat glass	Glass	NMM	SM_NMM	NMM
125	Manufacture of glass container	GlassCont	NMM	SM_NMM	NMM
126	Manufacture of other glass and glass products	GlassOther	NMM	SM_NMM	NMM
127	Cement manufacture	Cement	NMM	SM_NMM	NMM
128	Manufacture of structural clay products	Clay	NMM	SM_NMM	NMM
129	Manufacture of structural concrete products	Concrete	NMM	SM_NMM	NMM
130	Manufacture of other non-metallic mineral products, n.e.c.	ManNnMetal	NMM	SM_NMM	NMM
131	Blast furnace and steel making furnace, steel works and rolling mills	SteelFurna	I_S	SM_I_S	I_S
132	Iron and steel foundries	IronSteel	I_S	SM_I_S	I_S
133	Non-ferrous smelting and refining plants,	Smelting	NFM	SM_NFM	NFM

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
	rolling, drawing and extrusion mills				
134	Non-ferrous foundries	NonFer	NFM	SM_NFM	NFM
135	Cutlery, handtools, general hardware	Cutlery	FMP	SM_FMP	FMP
136	Structural metal products	MetalProds	FMP	SM_FMP	FMP
137	Manufacture of metal containers	MetlContain	FMP	SM_FMP	FMP
138	Metal stamping, coating, engraving mills	MetlEngrav	FMP	SM_FMP	FMP
139	Manufacture of wire nails	WireNails	FMP	SM_FMP	FMP
	Manufacture of other fabricated wire and cable products except insulated wire and cable				
140	Manufacture of non-electric lighting and heating fixtures	OtherWire	FMP	SM_FMP	FMP
141	Manufacture of fabricated metal products except machinery and equipment	LightNnElec	FMP	SM_FMP	FMP
142	Manufacture of agricultural machinery and equipment	FabricMetal	FMP	SM_FMP	FMP
143	Manufacture of metal and wood-working machinery	AgriMach	OME	SM_OME	OME
144	Manufacture of engines and turbines, except for transport equipment and special industrial machinery and equipment	MtlWdMach	OME	SM_OME	OME
145	Manufacture, assembly and repair of office, computing and accounting machs	Engines	OME	SM_OME	OME
146	Manufacture of pumps, compressors, blowers and airconditioners	OfcMachs	ELE	SM_ELE	ELE
147	Machine shops and manufacture of non-electrical machinery and equipment, n.e.c.	PmpsAirCon	OME, OMF	SM_OME	OME
148	Manufacture of electrical, industrial machinery and apparatus	NnElecMachs	OME, OMF	SM_OME	OME
149	Manufacture of radio and TV receiving sets, sound recording and reproducing equipment including records and tapes	ElecMacs	OME,OMF	SM_OME	OME
150	Manufacture of communication and	RadioTVmach	ELE	SM_ELE	ELE
151		CommEquip	ELE	SM_ELE	ELE

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
	detection equipment				
152	Manufacture of parts and supplies for radio, TV and communication	RadioParts	ELE	SM_ELE	ELE
153	Manufacture of appliances and housewares	ApplHouse	ELE	SM_ELE	ELE
154	Manufacture of semi- conductor devices	SemiCond	ELE	SM_ELE	ELE
155	Manufacture of primary cells and batteries and electric accumulators	Batteries	OME	SM_OME	OME
156	Insulated wires and cables	Cables	OME	SM_OME	OME
157	Manufacture of current-carrying wiring devices, conduits and fittings	WireCond	OME	SM_OME	OME
158	Manufacture of electrical lamps, fluorescent tubes and other electrical apparatus and supplies, n.e.c.	ElecLamps	OME	SM_OME	OME
159	Shipyards and boatyards	ShipsBoat	OTN	SM_OTN	OTN
160	Manufacture and assembly of motor vehicles	MotorVehcls	MVH	SM_MVH	MVH
161	Rebuilding and major alteration of motor vehicles	MotorAlter	MVH	SM_MVH	MVH
162	Manufacture of motor vehicles parts and accessories	MotorParts	MVH	SM_MVH	MVH
163	Manufacture, assembly of motorcycles and bicycles	MotoBike	OTN	SM_OTN	OTN
164	Manufacture, assembly, rebuilding and major alteration of railroad equipment, aircraft, and animal and hand-drawn vehicle	MachRebuild	OTN	SM_OTN	OTN
165	Manufacture of professional, scientific measuring and controlling equipment	ScientMach	OME	SM_OME	OME
166	Manufacture of photographic and optical instruments	PhotoOptic	OME	SM_OME	OME
167	Manufacture of watches and clocks	Watch	OME	SM_OME	OME
168	Manufacture and repair of furniture and fixtures, made primarily of metal	FurnRepMet	OMF	SM_OMF	OMF

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
169	Manufacture of jewelry and related articles	Jewelry	OMF	SM_OMF	OMF
170	Manufacture of musical instruments	MusicInstru	OMF	SM_OMF	OMF
171	Manufacture of sporting and athletic goods	SportAthlet	OMF	SM_OMF	OMF
172	Manufacture of surgical, dental, medical and orthopedic supplies	SurgDental	OME	SM_OME	OME
173	Manufacture of ophthalmic goods	OpthalGoods	OME	SM_OME	OME
174	Manufacture of toys and dolls except rubber and plastic toys	Toys	OMF	SM_OMF	OMF
175	Manufacture of stationers', artists' and office supplies	OfcSupplies	OMF	SM_OMF	OMF
176	Miscellaneous manufacturing	ManufacNEC	OMF	SM_OMF	OMF
177	Construction	Construct	CNS	SM_CNS	CNS
178	Electricity	Electricity	ELY	SS_ELY	ELY
179	Steam	SteamGas	GDT	SS_GDT	GDT
180	Water	Water	WTR	SS_WTR	WTR
181	Railway transport	Railway	OTP	SS_OTP	OTP
182	Bus line operation	Bus	OTP	SS_OTP	OTP
183	Public utility cars and taxicab operation	Taxi	OTP	SS_OTP	OTP
184	Jeepney, tricycles (motorized and non-motorized) and other road transport	ORoadTrans	OTP	SS_OTP	OTP
185	Tourist buses and cars including chartered and rent-a-car	RentACar	OTP	SS_OTP	OTP
186	Road freight transport	Freight	OTP	SS_OTP	OTP
187	Sea and coastal water transport	SeaTransp	WTP	SS_WTP	WTP
188	Inland water transport (including renting of ship with operator)	InH2OTrans	WTP	SS_WTP	WTP
189	Supporting services to transport	SupportServ	OTP	SS_OTP	OTP
190	Air transport	AirTransp	ATP	SS_ATP	ATP
191	Tour and travel agencies	TravlAgenc	OTP	SS_OTP	OTP
192	Activities of other transport agencies (including custom brokerage, n.e.c)	TransNEC	OTP	SS_OTP	OTP
193	Storage and warehousing	Warehouse	OTP	SS_OTP	OTP

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
194	Postal and courier activities	Postal	CMN	SS_CMN	CMN
195	Telephone service includes telegraphs	Telephone	CMN	SS_CMN	CMN
196	Wireless telecommunications	WirePhone	CMN	SS_CMN	CMN
197	Telecommunication services, n.e.c	Otelecom	CMN	SS_CMN	CMN
198	Wholesale and retail trade	Trade	TRD	SS_TRD	TRD
199	Repairs of motor vehicles and personal and household goods	MtrvhclRep	TRD	SS_TRD	TRD
200	Banking	Banking	OFI	SS_OFI	OFI
201	Investment, financing and other non-banking services except pawnshops	NonBank	OFI	SS_OFI	OFI
202	Pawnshops	Pawnshop	OFI	SS_OFI	OFI
203	Life insurance	Insurance	ISR	SS_ISR	ISR
204	Non-life and other insurance activities	IsuranceNEC	ISR	SS_ISR	ISR
205	Real estate activities with own or leased property and contract basis	Real Estate	OBS	SS_OBS	OBS
206	Ownership of dwellings	Dwellings	DWE	SS_DWE	DWE
207	Public Education Services	PublicEduc	OSG	SS_OSG	OSG
208	Public Health and Welfare Services	PubHealth	OSG	SS_OSG	OSG
209	Public Administration and Defense	PubDef	OSG	SS_OSG	OSG
210	Private education services	PrivEduc	OSG	SS_OSG	OSG
211	Private medical, dental and other health services	PrivMedic	OSG	SS_OSG	OSG
212	Other hospital activities and medical and dental practices, including veterinary services	MedicOther	OSG	SS_OSG	OSG
213	Legal activities	Legal	ROS	SS_ROS	ROS
214	Accounting, bookkeeping and auditing activities; tax cons	ProfServs	ROS	SS_ROS	ROS
215	Architectural and engineering activities	EngServ	ROS	SS_ROS	ROS
216	Advertising activities	Advertise	ROS	SS_ROS	ROS
217	Renting of equipments	EquipRent	ROS	SS_ROS	ROS

No.	Original IO Sector Name	OSEC	GTAP	SEC	GTAP
		Short Name	Concordance	Name of Aggregated Commodities	GSEC
218	Business and management cons activities	cons	ROS	SS_ROS	ROS
219	Labor recruitment and provision of personnel	LabRecruit	ROS	SS_ROS	ROS
220	Investigation and security activities	Detective	ROS	SS_ROS	ROS
221	Miscellaneous business activities, n.e.c.	BusActNEC	ROS, OBS	SS_OBS	OBS
222	Other business services	BusOthers	ROS, OBS	SS_OBS	OBS
223	Hotels and motels	Hotels	TRD	SS_TRD	TRD
224	Other short-stay accommodation, n.e.c.	OHotels	TRD	SS_TRD	TRD
225	Restaurants, bars, canteens and other eating and drinking places	Restau	TRD	SS_TRD	TRD
226	Computer hardware cons	CompHCons	ROS	SS_ROS	ROS
227	Computer software cons including computer supply	CompCcons	ROS	SS_ROS	ROS
228	Other computer related activities	CompOcons	ROS	SS_ROS	ROS
229	Maintenance and repair of office, accounting and computing machinery	OfcRepair	ROS	SS_ROS	ROS
230	Photographic activities	Photograph	OBS	SS_OBS	OBS
231	Call/Contact centers, Business Processing outsourcing and other IT-based services	BPO	OBS	SS_OBS	OBS
232	Social Work	SocialWork	OSG	SS_OSG	OSG
233	Sewage and refuse disposal, sanitation and similar activities	Seawage	OSG	SS_OSG	OSG
234	Motion picture and video production and distribution	FilmProd	ROS	SS_ROS	ROS
235	Motion picture projection	FilmProject	ROS	SS_ROS	ROS
236	Radio and television activities	RadioTVServ	ROS	SS_ROS	ROS
237	Other recreational and cultural services	Orecreation	ROS	SS_ROS	ROS
238	Washing and drycleaning of clothing and textile	WashClothe	ROS	SS_ROS	ROS
239	Hairdressing and other beauty treatment	HairParlor	ROS	SS_ROS	ROS
240	Other personal services, n.e.c.	ServicesNEC	ROS	SS_ROS	ROS

Table 3A.

GTAP Sectors			Mapping GSEC To SEC	LIST	
Number	Description	Code		Number	SEC
1	Paddy rice	PDR	SA_PDR	1	SA_PDR
2	Wheat	WHT	SA_WHT	2	SA_WHT
3	Cereal grains nec	GRO	SA_GRO	3	SA_GRO
4	Vegetables, fruit, nuts	V_F	SA_V_F	4	SA_V_F
5	Oil seeds	OSD	SA_OSD	5	SA_OSD
6	Sugar cane, sugar beet	C_B	SA_C_B	6	SA_C_B
7	Plant-based fibers	PFB	SA_PFB	7	SA_PFB
8	Crops nec	OCR	SA_OCR	8	SA_OCR
9	Bovine cattle, sheep and goats, horses	CTL	SA_CTL	9	SA_CTL
10	Animal products nec	OAP	SA_OAP	10	SA_OAP
11	Raw milk	RMK	SA_RMK	11	SA_RMK
12	Wool, silk-worm cocoons	WOL	SA_OAP	12	SA_FRS
13	Forestry	FRS	SA_FRS	13	SA_FSH
14	Fishing	FSH	SA_FSH	14	SM_COA
15	Coal	COA	SM_COA	15	SM_OILGAS
16	Oil	OIL	SM_OILGAS	16	SM_OMN
17	Gas	GAS	SM_OILGAS	17	SM_CMT
18	Minerals nec	OMN	SM_OMN	18	SM_OMT
19	Bovine meat products	CMT	SM_CMT	19	SM_VOL
20	Meat products nec	OMT	SM_OMT	20	SM_MIL
21	Vegetable oils and fats	VOL	SM_VOL	21	SM_PCR
22	Dairy products	MIL	SM_MIL	22	SM_SGR
23	Processed rice	PCR	SM_PCR	23	SM_OFD
24	Sugar	SGR	SM_SGR	24	SM_B_T
25	Food products nec	OFD	SM_OFD	25	SM_TEX
26	Beverages and tobacco products	B_T	SM_B_T	26	SM_WAP
27	Textiles	TEX	SM_TEX	27	SM_LEA
28	Wearing apparel	WAP	SM_WAP	28	SM_LUM
29	Leather products	LEA	SM_LEA	29	SM_PPP

GTAP Sectors			Mapping GSEC To SEC	LIST	
Number	Description	Code		Number	SEC
30	Wood products	LUM	SM_LUM	30	SM_P_C
31	Paper products, publishing	PPP	SM_PPP	31	SM_CRP
32	Petroleum, coal products	P_C	SM_P_C	32	SM_NMM
33	Chemical, rubber, plastic products	CRP	SM_CRP	33	SM_I_S
34	Mineral products nec	NMM	SM_NMM	34	SM_NFM
35	Ferrous metals	I_S	SM_I_S	35	SM_FMP
36	Metals nec	NFM	SM_NFM	36	SM_MVH
37	Metal products	FMP	SM_FMP	37	SM_OTN
38	Motor vehicles and parts	MVH	SM_MVH	38	SM_ELE
39	Transport equipment nec	OTN	SM_OTN	39	SM_OME
40	Electronic equipment	ELE	SM_ELE	40	SM_OMF
41	Machinery and equipment nec	OME	SM_OME	41	SS_ELY
42	Manufactures nec	OMF	SM_OMF	42	SS_GDT
43	Electricity	ELY	SS_ELY	43	SS_WTR
44	Gas manufacture, distribution	GDT	SS_GDT	44	SM_CNS
45	Water	WTR	SS_WTR	45	SS_TRD
46	Construction	CNS	SM_CNS	46	SS_OTP
47	Trade	TRD	SS_TRD	47	SS_WTP
48	Transport nec	OTP	SS_OTP	48	SS_ATP
49	Water transport	WTP	SS_WTP	49	SS_CMN
50	Air transport	ATP	SS_ATP	50	SS_OFI
51	Communication	CMN	SS_CMN	51	SS_ISR
52	Financial services nec	OFI	SS_OFI	52	SS_OBS
53	Insurance	ISR	SS_ISR	53	SS_ROS
54	Business services nec	OBS	SS_OBS	54	SS_OSG
55	Recreational and other services	ROS	SS_ROS	55	SS_DWE
56	Public Administration, Defense, Education, Health	OSG	SS_OSG		
57	Dwellings	DWE	SS_DWE		

