

AQ.1 Introduction

The reference year of the recent Philippine input-output (IO) table is 2018. The IO table is highly disaggregated consisting of 240 sectors; of which, 38 sectors are agricultural, 138 industrial, and 64 service sectors. This paper discusses how the Philippine IO table is adjusted to conform with the 65 sectors in the GTAP database.

The last Philippine IO table update in the GTAP database was for 2000. The latest 2018 Philippine IO captures significant structural changes in the economy for 18 years from 2000 to 2018.

AQ.2 Data Sources

The main source of data is the 2018 Philippine IO table published by the Philippine Statistical Authority (PSA). PSA is a government agency whose mandate is to provide official data on the Philippine economy. The PSA publication of the Philippine IO includes a transaction table, technical coefficients matrix, and the Leontief Inverse Matrix of three dimension: 16x16; 80x80 and 240xs240.

The IO table represents “the latest structure of the economy following the results of the overall revision and rebasing to 2018 of the national accounts. Among others, this covers the (1) digitalization of the economy; (2) emerging and highlighted industries and demand commodities such as information and communication, accommodation and food service activities, education, and human health and social work activities; (3) inclusion of valuables; (4) use of new classification based on the latest standards⁶²; and (5) advancement in measurement techniques and methods.” (PSA)

The 2018 IO table is an industry-by-industry transaction table in producer prices. The values in the table are expressed in Philippine pesos in 2018 prices. The value-added table includes: (i) compensation of employees, (ii) gross operating surplus and (iii) taxes less subsidies. The final demand table consists of: (a) household final consumption expenditure, (b) government final consumption expenditure, (c) construction, (e) durable equipment, (f) breeding stocks and orchard development, (g) intellectual; property products; (h) changes in inventories; (i) exports of goods and services; and (j) imports of goods and services. In the inter-industry transaction matrix, dwellings are sold only to private household consumption

The Philippine IO table has several limitations. It does not have separate domestic and

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⁶²Using the latest Philippine Standard Industrial Classification (PSIC), which was patterned after the UN International Standard Industrial Classification (ISIC) Rev. 4.

import matrixes. The government sector final demand consists of 24 percent from public administration ('osg', a GTAP sector) and 76 percent from the rest of the 240 sectors. There are considerable re-exports in some sectors in the economy. The original IO table therefore requires adjustments before it can be an input into the GTAP database.

The sectoral tariff rates data from the Tariff Commission of the Philippines was utilized to calculate the sectoral tariff revenue. The resulting sectoral tariff revenue was normalized/scaled to the total the revenue of indirect taxes and revenue of import duties from the official government accounts in 2018. Resulting sectoral results were normalized/scaled again so the total will be consistent with the total in the 2018 IO table.

AQ.3 Data Processing

Adjustments in the government final demand column

The adjustment in the government final demand, the adjustment is done in the original 240 sectors. In the interindustry matrix of the IO table, public administration (OSG) is sector '228'. In the interindustry matrix, sector '228' has row sector '228' and column sector '228'. The adjustment of the government final column was done in two steps:

- i Except for the value contained in the cell where the government final demand column intersects the row sector '228', the sectoral values in the government final demand column were moved and added to sectoral values in column sector '228'.
- ii Step (i) will reduce the overall GDP in the final demand matrix and will not equal to the total sectoral gross value added. Here in step (ii), the total value that was moved and added in step (i) was added to the cell where the government final demand column intersects the row '228'. This will bring back the equality between the overall GDP and the total sectoral gross value added.

Adjustments to net out sectoral re-exports

Re-exports are not permitted in the GTAP database. In the original 2018 IO table, there are several sectors where the value of exports exceeds the value of production. There are also sectors where the value of imports exceeds the domestic demand. These indicates the presents of re-exports. To net out re-exports, the method suggested by GTAP was adopted in the adjustments.⁶³ That is, the following adjustments we made:

$$(a) RX_i = Prop_i * X_i$$

where RX_i is the value of re-exports of commodity i ; X_i total value of exports of commodity

⁶³<https://www.gtap.agecon.purdue.edu/databases/contribute/reexports.asp>

i ; $Prop_i$ is the estimated proportion of total exports of commodity i which are believed to be re-exports.

$$(b) Prop_i = \frac{M_i}{M_i + P_i}$$

where M_i are imports of commodity i ; P_i production of commodity i .

Mapping Between Philippine Sectors and GTAP Sectors

There are 240 sectors in the 2018 Philippine IO table. These sectors were aggregated to a set of 60 sectors that correspond to the elements of the 65 sectors of the GTAP database. The mapping of the Philippine IO sectors to the GTAP sectors is given in Table 8.87.

Table 8.87: Mapping of 2018 Philippine IO Table to 65 Sectors in GTAP Data Base

GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
1	pdr	Rice	1	pdr1	Palay	1	pdr	Palay
2	wht	Wheat		wht1				
3	gro	Maize (corn)	2	gro1	Corn	2	gro	Corn
		Sorghum						
		Barley						
		Rye						
		Oats						
		Millet						
		Other cereals						
			38	gro2	Support activities to agriculture, forestry and fishing			Support activities to agriculture, forestry and fishing
4	v_f	Vegetables	18	v_f1	Leafy and stem vegetables	3	v_f	Leafy and stem vegetables
			19	v_f2	Fruit bearing vegetables			Fruit bearing vegetables
			20	v_f3	Onion			Onion
			21	v_f4	Horticultural specialties and nursery products			Horticultural specialties and nursery products
			22	v_f5	Other agricultural crops, n.e.c.			Other agricultural crops, n.e.c.
		Fruit and nuts	5	v_f6	Banana			Banana
			6	v_f7	Mango			Mango
			7	v_f8	Pineapple			Pineapple
			8	v_f9	Coffee			Coffee
			15	v_f10	Citrus fruits			Citrus fruits
			16	v_f11	Papaya			Papaya
			17	v_f12	Other fruits, n.e.c.			Other fruits, n.e.c.
		Edible roots and tubers with high starch or inulin content	9	v_f13	Cassava			Cassava

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
			14	v_f14	Sweet potato			Sweet potato
		Pulses (dried leguminous vegetables)						
5	osd	Oil seeds and oleaginous fruit	3	osd1	Coconut including copra	4	osd	Coconut including copra
6	c_b	Sugar crops	4	c_b1	Sugarcane including muscovado sugar-making in the farm	5	c_b	Sugarcane including muscovado sugar-making in the farm
7	pfb	Fibre crops	12	pfb1	Abaca	6	pfb	Abaca
8	ocr	Stimulant, spice and aromatic crops						
		Forage products						
		Plants and parts of plants used primarily in perfumery, in pharmacy, or for insecticidal, fungicidal or similar purposes						
		Beet seeds (excluding sugar beet seeds) and seeds of forage plants						
		Natural rubber in primary forms or in plates, sheets or strip						
		Living plants; cut flowers and flower buds; flower seeds						
		Unmanufactured tobacco	13	ocr1	Tobacco	7	ocr	Tobacco
			10	ocr2	Rubber			Rubber
			11	ocr3	Cacao			Cacao
		Other raw vegetable materials nec						
9	ctl	Bovine animals, live	24	ctl1	Cattle farming	8	ctl	Cattle farming
		Other ruminants	25	ctl2	Carabao farming			Carabao farming
		Horses and other equines						
		Bovine semen						
			26	ctl3	Goat farming			Goat farming

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
10	oap	Swine / pigs	23	oap1	Hog farming	9	oap	Hog farming
		Poultry	28	oap2	Chicken			Chicken
			30	oap3	Other poultry, livestock and animals, n.e.c.			Other poultry, livestock and animals, n.e.c.
		Other live animals						
		Eggs of hens or other birds in shell, fresh	29	oap4	Egg production			Egg production
		Semen, n.e.c						
		Natural honey						
		Snails, fresh, chilled, frozen, dried, salted or in brine, except sea snails						
		Edible products of animal origin n.e.c.						
		Hides, skins and furskins, raw						
		Insect waxes and spermaceti, whether or not refined or coloured						
11	rmk	Raw milk	27	rmk1	Dairy farming	10	rmk	Dairy farming
12	wol	Raw animal materials used in textiles						
13	frs	Forestry and logging products	31	frs1	Forestry and logging	11	frs	Forestry and logging
14	fsh	Fishing and aquaculture	32	fsh1	Ocean fishing (including fish corals)	12	fsh	Ocean fishing (including fish corals)
			33	fsh2	Inland and coastal fishing			Inland and coastal fishing
			34	fsh3	Prawn culture and Operation of fish farms and nurseries			Prawn culture and Operation of fish farms and nurseries
			35	fsh4	Pearl culture and pearl shell gathering			Pearl culture and pearl shell gathering
			36	fsh5	Seaweeds farming			Seaweeds farming
			37	fsh6	Mollusks and other crustacean farm operations (except prawn farm operations) and other fishing activities, n.e.c			Mollusks and other crustacean farm operations (except prawn farm operations) and other fishing activities, n.e.c

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
		Hunting, trapping and related service activities						
15	coa	Mining of coal and lignite	39	coa1	Coal and lignite	13	coa	Coal and lignite
16	oil	Extraction of crude petroleum	40	oilgas	Crude petroleum and natural gas	14	oilgas	Crude petroleum and natural gas
		Support activities for petroleum and natural gas extraction (petroleum part)						
17	gas	Extraction of natural gas						
18	oxt	Mining of metal ores	41	oxt1	Gold and other precious metal ores	15	oxt	Gold and other precious metal ores
			42	oxt2	Nickel ores			Nickel ores
			43	oxt3	Copper ores			Copper ores
		Other mining and quarrying	44	oxt4	Quarrying of stone, clay, gravel and sand			Quarrying of stone, clay, gravel and sand
		Support activities for other mining and quarrying	45	oxt5	Other mining and quarrying			Other mining and quarrying
19	cmt	Meat of cattle, fresh or chilled	46	cmt1	Slaughtering and meat packing	16	cmt	Slaughtering and meat packing
			47	cmt2	Production, processing and preserving of meat and meat products			Production, processing and preserving of meat and meat products
		Meat of buffalo, fresh or chilled						
		Meat of sheep, fresh or chilled						
		Meat of goat, fresh or chilled						
		Meat of camels and camelids, fresh or chilled						
		Meat of horses and other equines, fresh or chilled						
		Other meat of mammals, fresh or chilled						
		Meat of mammals, frozen						

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
		Edible offal of mammals, fresh, chilled or frozen						
20	omt	Meat of pigs, fresh or chilled						
		Meat of rabbits and hares, fresh or chilled						
		Meat of poultry, fresh or chilled						
		Meat of poultry, frozen						
		Edible offal of poultry, fresh, chilled or frozen						
		Other meat and edible offal, fresh, chilled or frozen						
		Preserves and preparations of meat, meat offal or blood						
		Flours, meals and pellets of meat or meat offal, inedible; greaves						
21	vol	Animal fats	52	vol1	Vegetable and animal oils and fats, n.e.c.	17	vol	Vegetable and animal oils and fats, n.e.c.
		Vegetable oils	51	vol2	Virgin coconut oil, dessicated coconut, and nata de coco			Virgin coconut oil, dessicated coconut, and nata de coco
		Margarine and similar preparations						
		Cotton linters						

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
		Oil-cake and other residues resulting from the extraction of vegetable fats or oils; flours and meals of oil seeds or oleaginous fruits, except those of mustard; vegetable waxes, except triglycerides; degreas; residues resulting from the treatment of fatty substances or animal or vegetable waxes						
22	mil	Dairy products	53	mil1	Milk and cream	18	mil	Milk and cream
			54	mil2	Butter, cheese and curd			Butter, cheese and curd
			55	mil3	Ice cream and sherbet, ice drop, ice candy and other flavored ices			Ice cream and sherbet, ice drop, ice candy and other flavored ices
			56	mil4	Other dairy products, n.e.c.			Other dairy products, n.e.c.
23	pcr	Rice, semi- or wholly milled, or husked	57	pcr1	Rice/corn milling	19	pcr	Rice/corn milling
24	sgr	Sugar and molasses	61	sgr1	Sugar other sugarcane products	20	sgr	Sugar other sugarcane products
25	ofd	Prepared and preserved fish, crustaceans, molluscs and other aquatic invertebrates	48	ofd1	Canning/packing of fish and other marine products	21	ofd	Canning/packing of fish and other marine products
		Prepared and preserved vegetables, pulses and potatoes	49	ofd2	Other types of processing of fish and other marine products			Other types of processing of fish and other marine products
		Prepared and preserved fruits and nuts	50	ofd3	Processing and preserving of fruits and vegetables			Processing and preserving of fruits and vegetables
		Wheat and meslin flour	58	ofd4	Grain and vegetable mill products, except rice and corn			Grain and vegetable mill products, except rice and corn

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
		Other cereal flours						
		Groats, meal and pellets of wheat and other cereals						
		Other cereal grain products (including corn flakes)						
		Other vegetable flours and meals						
		Mixes and doughs for the preparation of bakers' wares						
		Starches and starch products; sugars and sugar syrups n.e.c.	59	ofd5	Starches and starch products			Starches and starch products
		Preparations used in animal feeding; lucerne (alfalfa) meal and pellets						
		Bakery products	60	ofd6	Bakery products			Bakery products
		Cocoa, chocolate and sugar confectionery	62	ofd7	Cocoa, chocolate and sugar confectionery			Cocoa, chocolate and sugar confectionery
		Macaroni, noodles, couscous and similar farinaceous products	63	ofd8	Macaroni, noodles, couscous and similar farinaceous products			Macaroni, noodles, couscous and similar farinaceous products
		Food products n.e.c.	64	ofd9	Prepared meals and dishes			Prepared meals and dishes
			65	ofd10	Food supplements from herbs and other plants			Food supplements from herbs and other plants
			66	ofd11	Coffee roasting and processing			Coffee roasting and processing
			67	ofd12	Food products, n.e.c.			Food products, n.e.c.
			68	ofd13	Animal feeds			Animal feeds
26	b_t	Beverages	69	b_t1	Alcoholic liquors and wine	22	b_t	Alcoholic liquors and wine
			70	b_t2	Malt liquors and malt			Malt liquors and malt
			71	b_t3	Soft drinks			Soft drinks
			72	b_t4	Drinks flavored with fruit juices, syrups or other materials			Drinks flavored with fruit juices, syrups or other materials

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
			73	b_t5	Drinking water and mineral water			Drinking water and mineral water
			74	b_t6	Other beverages, n.e.c.			Other beverages, n.e.c.
		Tobacco products	75	b_t7	Cigarettes			Cigarettes
			76	b_t8	Cigars and chewing and smoking tobacco, snuff			Cigars and chewing and smoking tobacco, snuff
			77	b_t9	Tobacco leaf flue-curing and re-drying and other tobacco manufacturing, n.e.c.			Tobacco leaf flue-curing and re-drying and other tobacco manufacturing, n.e.c.
27	tex	Manufacture of textiles	78	tex1	Spinning, texturizing, weaving and finishing of textiles	23	tex	Spinning, texturizing, weaving and finishing of textiles
			79	tex2	Knitted and crocheted fabrics			Knitted and crocheted fabrics
			80	tex3	Knitted or crocheted hosiery, underwear and outerwear when knitted or crocheted directly into shape			Knitted or crocheted hosiery, underwear and outerwear when knitted or crocheted directly into shape
			81	tex4	Knitted and crocheted fabrics, n.e.c.			Knitted and crocheted fabrics, n.e.c.
			82	tex5	Made-up textile articles, except wearing apparel			Made-up textile articles, except wearing apparel
			83	tex6	Carpets and rugs			Carpets and rugs
			84	tex7	Cordage, rope, twine and netting			Cordage, rope, twine and netting
			85	tex8	Embroidered fabrics			Embroidered fabrics
			86	tex9	Other textiles, n.e.c.			Other textiles, n.e.c.
28	wap	Manufacture of wearing apparel	87	wap1	Ready-made garments manufacturing (excluding embroidered garments)	24	wap	Ready-made garments manufacturing (excluding embroidered garments)
			88	wap2	Ready-made embroidered garments manufacturing			Ready-made embroidered garments manufacturing
			89	wap3	Custom tailoring and dressmaking			Custom tailoring and dressmaking
			90	wap4	Other wearing apparel, n.e.c.			Other wearing apparel, n.e.c.
29	lea	Manufacture of leather and related products	91	lea1	Tanning and dressing of leather	25	lea	Tanning and dressing of leather
			92	lea2	Products of leather and imitation leather			Products of leather and imitation leather
			93	lea3	Shoes			Shoes
			94	lea4	Other footwear, n.e.c.			Other footwear, n.e.c.

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
30	lum	Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	95	lum1	Sawmilling and planing of wood	26	lum	Sawmilling and planing of wood
			96	lum2	Veneer sheets and plywoods			Veneer sheets and plywoods
			97	lum3	Laminboard, particle board and other panels and board			Laminboard, particle board and other panels and board
			98	lum4	Builders' carpentry and joinery; millworking			Builders' carpentry and joinery; millworking
			99	lum5	Wood carvings			Wood carvings
			100	lum6	Products of bamboo, cane, rattan and the like, and plaiting materials except furniture			Products of bamboo, cane, rattan and the like, and plaiting materials except furniture
			101	lum7	Other products of wood, except furniture, n.e.c.			Other products of wood, except furniture, n.e.c.
31	ppp	Manufacture of paper and paper products	102	ppp1	Pulp, paper and paperboard	27	ppp	Pulp, paper and paperboard
			103	ppp2	Containers and boxes of paper and paperboard			Containers and boxes of paper and paperboard
			104	ppp3	Other articles of paper and paperboard			Other articles of paper and paperboard
		Printing and reproduction of record media	105	ppp4	Printing, and service activities related to printing			Printing, and service activities related to printing
			106	ppp5	Reproduction of recorded media			Reproduction of recorded media
32	p_c	Manufacture of coke and refined petroleum products	107	p_c1	Refined petroleum products	28	p_c	Refined petroleum products
			108	p_c2	Other petroleum products			Other petroleum products
33	chm	Manufacture of chemicals and chemical products	109	chm1	Basic chemicals except fertilizers and nitrogen compounds	29	chm	Basic chemicals except fertilizers and nitrogen compounds

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
			112	chm2	Pesticides and other agro- chemical products			Pesticides and other agro- chemical products
			113	chm3	Paints, varnishes and similar coatings, printing ink and mastics			Paints, varnishes and similar coatings, printing ink and mastics
			114	chm4	Soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations			Soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations
			115	chm5	Other chemical products, n.e.c.			Other chemical products, n.e.c.
			110	chm6	Fertilizers and nitrogen compounds			Fertilizers and nitrogen compounds
34	bph	Manufacture of pharmaceuticals, medicinal chemical and botanical products	116	bph1	Basic pharmaceutical products and pharmaceutical preparations	30	bph	Basic pharmaceutical products and pharmaceutical preparations
35	rpp	Manufacture of rubber and plastics products	117	rpp1	Rubber products	31	rpp	Rubber products
			118	rpp2	Plastic products			Plastic products
			111	rpp3	Plastics in primary forms and of synthetic rubber			Plastics in primary forms and of synthetic rubber
36	nmm	Manufacture of other non-metallic mineral products	119	nmm1	Flat glass (including float glass)	32	nmm	Flat glass (including float glass)
			120	nmm2	Glass and glass products			Glass and glass products
			121	nmm3	Cement			Cement
			122	nmm4	Other non-metallic mineral products, n.e.c.			Other non-metallic mineral products, n.e.c.
37	i_s	Manufacture of basic iron and steel	123	i_s1	Basic iron and steel	33	i_s	Basic iron and steel
		Casting of iron and steel	124	i_s2	Casting/foundry of iron and steel			Casting/foundry of iron and steel
38	nfm	Manufacture of basic precious and other non-ferrous metals	125	nfm1	Basic precious and non-ferrous metals	34	nfm	Basic precious and non-ferrous metals
		Casting of non-ferrous metals	126	nfm2	Non-ferrous metal casting			Non-ferrous metal casting

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
39	fmp	Manufacture of fabricated metal products, except machinery and equipment	127	fmp1	Structural metal products	35	fmp	Structural metal products
			128	fmp2	Metal containers			Metal containers
			129	fmp3	Forging, pressing, stamping and roll-forming of metal; powder metallurgy			Forging, pressing, stamping and roll-forming of metal; powder metallurgy
			130	fmp4	Cutlery, hand tools and general hardware			Cutlery, hand tools and general hardware
			131	fmp5	Other fabricated metal products, n.e.c.			Other fabricated metal products, n.e.c.
40	ele	Manufacture of computer, electronic and optical products	132	ele1	Electronic valves and tubes	36	ele	Electronic valves and tubes
			133	ele2	Semi-conductor devices and other electronic components			Semi-conductor devices and other electronic components
			134	ele3	Computers and peripheral equipment and accessories			Computers and peripheral equipment and accessories
			135	ele4	Communication equipment			Communication equipment
			136	ele5	Consumer electronics			Consumer electronics
41	eeq	Manufacture of electrical equipment	137	eeq1	Measuring, testing, navigating and control equipment	37	eeq	Measuring, testing, navigating and control equipment
			138	eeq2	Watches and clocks			Watches and clocks
			139	eeq3	Irradiation, electromedical and electrotherapeutic equipment			Irradiation, electromedical and electrotherapeutic equipment
			140	eeq4	Optical instruments and photographic equipment			Optical instruments and photographic equipment
			141	eeq5	Magnetic and optical media			Magnetic and optical media
			142	eeq6	Electric motors, generators and transformers and electric generating sets			Electric motors, generators and transformers and electric generating sets
			143	eeq7	Batteries and accumulators			Batteries and accumulators
			144	eeq8	Wiring and wiring devices			Wiring and wiring devices
			145	eeq9	Electric lighting equipment			Electric lighting equipment

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
			146	eeq10	Domestic appliances			Domestic appliances
			147	eeq11	Other electrical equipment			Other electrical equipment
42	ome	Manufacture of machinery and equipment n.e.c.	148	ome1	Engines and turbines, except aircraft, vehicle and cycle engines	38	ome	Engines and turbines, except aircraft, vehicle and cycle engines
			149	ome2	Pumps, compressors, taps and valves			Pumps, compressors, taps and valves
			150	ome3	Office machinery and equipment (except computers and peripheral equipment)			Office machinery and equipment (except computers and peripheral equipment)
			151	ome4	Other general purpose machinery			Other general purpose machinery
			152	ome5	Agricultural and forestry machinery			Agricultural and forestry machinery
			153	ome6	Machinery for mining, quarrying and construction			Machinery for mining, quarrying and construction
			154	ome7	Other special purpose machinery			Other special purpose machinery
43	mvh	Manufacture of motor vehicles, trailers and semi-trailers	155	mvh1	Motor Vehicles, Trailers and Semi-Trailers	39	mvh	Motor Vehicles, Trailers and Semi-Trailers
44	otn	Manufacture of other transport equipment	156	otn1	Building of ships and boats	40	otn	Building of ships and boats
			157	otn2	Railway locomotive and rolling stock			Railway locomotive and rolling stock
			158	otn3	Air and spacecraft and related machinery			Air and spacecraft and related machinery
			159	otn4	Motorcycles			Motorcycles
			160	otn5	Bicycles and invalid carriages			Bicycles and invalid carriages
			161	otn6	Other transport equipment, n.e.c.			Other transport equipment, n.e.c.
45	omf	Manufacture of furniture	162	omf1	Wood and rattan furniture (reed, wicker, and cane)	41	omf	Wood and rattan furniture (reed, wicker, and cane)
			163	omf2	Plastic furniture			Plastic furniture
			164	omf3	Furniture and fixtures of metal			Furniture and fixtures of metal
			165	omf4	Other furniture and fixtures, n.e.c.			Other furniture and fixtures, n.e.c.
			166	omf5	Jewelry, bijouterie and related articles			Jewelry, bijouterie and related articles
			167	omf6	Musical instruments			Musical instruments
			168	omf7	Sports goods			Sports goods
			169	omf8	Games and toys			Games and toys

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
			170	omf9	Medical and dental instruments and supplies			Medical and dental instruments and supplies
		Other manufacturing	171	omf10	Other manufacturing, n.e.c.			Other manufacturing, n.e.c.
		Repair and installation of machinery and equipment						
46	ely	Production, collection and distribution of electricity	172	ely1	Electric power generation, transmission and distribution	42	ely	Electric power generation, transmission and distribution
		Steam and hot water supply	173	ely2	Steam and hot water supply; and manufacture and distribution of gas			Steam and hot water supply; and manufacture and distribution of gas
47	gdt	Manufacture of gas; distribution of gaseous fuels through mains						
48	wtr	Collection, purification and distribution of water, water collection, treatment and supply						
		Sewerage	175	wtr1	Sewerage, and waste management and remediation activities	43	wtr	Sewerage, and waste management and remediation activities
		Waste collection, treatment and disposal activities; materials recovery	174	wtr2	Water collection, treatment and supply			Water collection, treatment and supply
		Remediation activities and other waste management services						
49	cns	Construction of buildings	176	cns1	Construction	44	cns	Construction
		Civil engineering						
		Specialized construction activities						

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
50	trd	Wholesale and retail trade and repair of motor vehicles and motorcycles	177	trd1	Wholesale trade, except of motor vehicles and motorcycles	45	trd	Wholesale trade, except of motor vehicles and motorcycles
		Wholesale trade, except of motor vehicles and motorcycles	178	trd2	Retail trade, except of motor vehicles and motorcycles			Retail trade, except of motor vehicles and motorcycles
		Retail trade, except of motor vehicles and motorcycles	179	trd3	Sale and repair of motor vehicles and motorcycles			Sale and repair of motor vehicles and motorcycles
51	afs	Accommodation	191	afs1	Short term accommodation activities	46	afs	Short term accommodation activities
			192	afs2	Other accommodation			Other accommodation
		Food and beverage service activities	193	afs3	Food and beverage service activities			Food and beverage service activities
52	otp	Land transport and transport via pipelines	180	otp1	Railway transport	47	otp	Railway transport
			181	otp2	Bus line operation			Bus line operation
			182	otp3	Tourist buses and cars including chartered and rent-a-car			Tourist buses and cars including chartered and rent-a-car
			183	otp4	Public utility cars and taxicab operation			Public utility cars and taxicab operation
			184	otp5	Jeepney and other land transport services			Jeepney and other land transport services
			185	otp6	Road freight transport			Road freight transport
			189	otp7	Support activities for transportation			Support activities for transportation
53	wtp	Water transport	186	wtp1	Water transport	48	wtp	Water transport
54	atp	Air transport	187	atp1	Air transport	49	atp	Air transport
55	whs	Warehousing and support activities for transportation	188	whs1	Warehousing and storage	50	whs	Warehousing and storage
56	cmn	Postal and courier activities	190	cmn1	Postal and courier activities	51	cmn	Postal and courier activities
		Publishing activities	194	cmn2	Publishing activities			Publishing activities

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
		Motion picture, video and television programme production, sound recording and music publishing activities	195	cmn3	Motion picture, video and television programme activities			Motion picture, video and television programme activities
		Programming and broadcasting activities	196	cmn4	Sound recording and music publishing activities			Sound recording and music publishing activities
		Telecommunication	197	cmn5	Programming and broadcasting activities			Programming and broadcasting activities
			198	cmn6	Wired telecommunications activities			Wired telecommunications activities
			199	cmn7	Wireless telecommunications activities			Wireless telecommunications activities
			200	cmn8	Satellite telecommunications activities			Satellite telecommunications activities
			201	cmn9	Other telecommunications activities, n.e.c.			Other telecommunications activities, n.e.c.
		Computer programming, consultancy and related activities	202	cmn10	Computer programming, consultancy and related activities			Computer programming, consultancy and related activities
		Information service activities	203	cmn11	Information service			Information service
57	ofi	Financial service activities, except insurance and pension funding	204	ofi1	Banking Institutions	52	ofi	Banking Institutions
		Activities auxiliary to financial service activities, except insurance and pension funding	205	ofi2	Non-banks			Non-banks
			208	ofi3	Activities auxiliary to financial intermediation			Activities auxiliary to financial intermediation
		Fund management activities						

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
58	ins	Insurance, reinsurance and pension funding, except compulsory social security	206	ins1	Life insurance	53	ins	Life insurance
		Activities auxiliary to insurance and pension funding	207	ins2	Non-life and other insurance activities			Non-life and other insurance activities
59	rsa	Real estate activities	209	rsa1	Real estate activities	54	rsa	Real estate activities
60	obs	Professional, scientific and technical activities and Administrative and support service activities	211	obs1	Legal activities	55	obs	Legal activities
			212	obs2	Accounting, bookkeeping and auditing activities; tax consultancy			Accounting, bookkeeping and auditing activities; tax consultancy
			213	obs3	Activities of head offices; management consultancy activities			Activities of head offices; management consultancy activities
			214	obs4	Architecture and engineering activities; technical testing and analysis			Architecture and engineering activities; technical testing and analysis
			215	obs5	Scientific research and development			Scientific research and development
			216	obs6	Advertising			Advertising
			217	obs7	Market research and public opinion polling			Market research and public opinion polling
			218	obs8	Specialized design activities			Specialized design activities
			219	obs9	Photographic activities			Photographic activities
			220	obs10	Other professional, scientific and technical activities, n.e.c.			Other professional, scientific and technical activities, n.e.c.
			221	obs11	Veterinary activities			Veterinary activities
			222	obs12	Rental and leasing activities			Rental and leasing activities
			223	obs13	Employment activities			Employment activities
			224	obs14	Travel agency, tour operator, reservation service and related activities			Travel agency, tour operator, reservation service and related activities

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
			225	obs15	Security and investigation activities			Security and investigation activities
			226	obs16	Call center and related activities			Call center and related activities
			227	obs17	Other administrative and support service activities, n.e.c.			Other administrative and support service activities, n.e.c.
			235	obs18	Repair of computers and personal and household goods			Repair of computers and personal and household goods
61	ros	Arts, entertainment and recreation; Other service activities; Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use	234	ros1	Arts, entertainment, and recreation	56	ros	Arts, entertainment, and recreation
			236	ros2	Spa, steam bath, slendering, and body building activities			Spa, steam bath, slendering, and body building activities
			237	ros3	Beauty treatment, personal grooming activities and other wellness activities, n.e.c.			Beauty treatment, personal grooming activities and other wellness activities, n.e.c.
			238	ros4	Laundry services			Laundry services
62	osg	Public administration and defence; compulsory social security	228	osg1	Public Administration and Defense; Compulsory social security	57	osg	Public Administration and Defense; Compulsory social security
		Activities of extraterritorial organizations and bodies						
63	edu	Education	229	edu1	Public education	58	edu	Public education
			230	edu2	Private education			Private education
64	hht	Human health and social work activities	231	hht1	Public human health	59	hht	Public human health
			232	hht2	Private human health			Private human health
			233	hht3	Social work activities			Social work activities

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GTAP 65 sectors			2018 Philippine 240 IO Sectors			Philippine 60 Sectors for GTAP		
No.	Code	Description	No.	Code	Description	No.	Code	Description
65	dwe	n.a.	210	dwe1	Ownership of dwellings	60	dwe	Ownership of dwellings
			239	dwe2	Funeral and related activities			Funeral and related activities
			240	dwe3	Other personal service activities			Other personal service activities

References

GTAP Data Bases: About Re-Exports.

Philippine Statistical Authority. 2018 Philippine Input-Output Table

Philippine Tariff Commission