

# INTERNATIONAL WORKSHOP ON SUPPLY AND USE TABLES



Beijing, China, 11-13 September 2018

## COMPILATION ISSUES OF CAMBODIA SUPPLY AND USE TABLE

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# OUTLINE



National Institute  
of Statistics  
Ministry of Planning  
CAMBODIA

- Background
- The formats of Cambodia Supply and Use Tables
- Data sources
- The Compilation issues

# BACKGROUND



National Institute  
of Statistics  
Ministry of Planning  
CAMBODIA

- The most recent published SUT of Cambodia was produced for 2011, and the previous one was for the year of 2005.
- Both SUT publications were produced under ADB projects.
- They were produced dependently on the macro total of the national account estimates.

## BACKGROUND (Cont.)



- A new SUT has been being compiled independently from the sourced data available in 2014.
- The estimates from this SUT will be used as the new benchmark for the revision of the national account estimates for the new based year.

# THE FORMATS OF CAMBODIA SUT



- The 2005 SUT was produced with 15x15 dimensions, whereas the 2011 one was with 60x60 dimensions.
- Both SUTs used CPC for products and ISIC for industries.

# THE FORMATS OF CAMBODIA SUT (CONT.)



- The new SUT (2014) was compiled with 227x4 dimensions: 227 products and 4 sources of supplies and demands.
- The 4 sources of supplies are Domestic Output, Margins, Taxes, and Imports, and the 4 sources of demands are Intermediate Demands, HFCE, Exports, and Other Final Demands.

# THE FORMATS OF CAMBODIA SUT (CONT.)



- The new SUT (2014) used Cambodia NCPA (National Classification of Products According to Activities) instead of CPC in the rows and the sources of supplies and demands in the columns.



# THE 2005 SUT OF CAMBODIA



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Asian Development Bank

## Supply and Use Tables for Selected Economies in Asia and the Pacific

Supply and Use Tables, Cambodia, 2005  
(million riels)

Use of Products	Intermediate Consumption by Industry Group														
	Agriculture, Forestry, Fishing and Other Related Service Activities	Mining and Quarrying	Manufacture of Food Products, Beverages and Tobacco	Manufacture of Textiles, Wearing Apparel, and Footwear	Manufacture of Wood, Paper and Paper Products	Manufacture of Basic and Fabricated Metals, Machinery and Equipment, and Other Apparatus	Other Manufacturing	Electricity, Gas, Steam and Hot Water Supply	Collection, Purification and Distribution of Water	Construction	Wholesale and Retail Trade	Transport, Storage and Communications	Financial Intermediation	Real Estate, Renting and Business Activities	Other Service Activities
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1 Agriculture, Forestry and Fishery Products	1,650,425		822,279	30,272	23,942	19	9,494		348	6,463	326,863	1,819		65,289	668,611
2 Products of Mining and Quarrying	7,011	10,547	6,808	4,892	750	4,433	16,070	5,156	2,909	110,345	9,002	1,352		10,222	6,374
3 Food, Beverages and Tobacco Products	164,367		386,646	1,540	120	22	1,812	93	87	183	49,619	1,885	104	3,288	330,480
4 Clothing and Wearing Apparel, and Leather and Leather Products	22,377	104	8,992	5,648,014	29,258	2,608	10,491	1,724	1,005	8,193	116,125	12,004	431	61,921	136,665
5 Products of Wood, Paper and Paper Products	4,734	65	74,543	98,980	53,625	1,317	11,535	529	623	51,613	23,917	24,901	21,014	93,129	69,010
6 Basic Metals, Fabricated Metals, Machinery, Equipment and Apparatus	46,637	4,977	48,211	103,045	4,549	516,492	42,148	40,953	17,812	477,293	224,236	634,110	23,693	56,405	543,297
7 Other Manufacturing	715,409	27,000	492,403	753,525	80,774	66,124	629,431	163,463	34,019	771,349	562,140	918,751	1,706	334,035	742,103
8 Electricity, Town Gas, Steam and Hot Water	2,594	551	2,456	21,521	1,115	1,655	3,314	18,377	5,315	5,058	22,195	7,056	8,608	15,914	39,263
9 Water	18,111	27	2,590	11,934	124	288	752	4,308	16,957	1,289	2,498	2,116	1,238	17,611	46,447
10 Construction Services	3,859	713	853	6,141	64	260	841	1,363	3,716	89,982	4,745	8,023	39	70,063	43,175
11 Wholesale and Retail Trade Services															
12 Transportation, Communication, and Supporting and Auxiliary Transport Service	26,139	6,205	39,289	53,920	4,854	11,988	20,039	10,084	2,005	40,436	107,656	285,005	50,846	34,134	169,986
13 Financial Intermediation, Insurance and Auxiliary Services except Compulsory	9,646	161	6,544	37,141	1,125	4,873	8,660	8,132	745	21,463	71,361	18,210	74,117	12,368	109,250
14 Real Estate, Leasing or Rental, and Other Business and Production Services	8,190	2,162	7,514	27,087	410	3,625	2,189	1,312	2,121	145,778	141,449	76,836	578	79,335	144,683
15 Other Services, n.e.c.	17,392	1,593	10,929	17,001	905	1,817	17,749	10,554	17,023	10,330	35,621	33,333	15,403	16,688	316,426
16 Adjustments:															
17 Direct Purchases in Domestic Market by Nonresidents															
18 Direct Purchases Abroad by Residents															
19 Total Uses	2,696,891	54,109	1,910,257	6,815,013	201,615	615,521	774,525	266,051	104,679	1,739,995	1,697,427	2,025,401	197,777	870,402	3,365,770
20 Total Gross Value Added/Gross Domestic Product	7,901,353	96,632	602,212	3,130,106	147,566	311,884	346,337	52,144	70,117	1,614,374	2,266,766	1,893,523	291,009	1,731,170	3,704,212
21 Compensation	3,178,842	14,721	239,580	986,111	70,703	115,001	59,131	24,352	13,446	963,838	869,316	407,370	61,915	359,907	1,824,085
22 Taxes Less Subsidies on Production and Imports															
23 Taxes Less Subsidies on Products															
24 Other Taxes Less Subsidies on Production															
25 Gross Operating Surplus	4,722,511	81,911	362,632	2,143,995	76,863	196,883	287,206	27,792	56,671	650,536	1,397,450	1,486,153	229,094	1,371,263	1,880,127



# THE 2011 SUT OF CAMBODIA



Table 4: Supply and Use Tables, Cambodia, 2011  
(million riel)

Use Table	Product • Industry •																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
		Cross	Livestock and Poultry	Forestry and Logging	Fishing and Aquaculture	Other Mining and Quarrying	Manufacture of Food Products	Manufacture of Beverages	Manufacture of Tobacco Products	Manufacture of Textiles and Wearing Apparel and Footwear	Manufacture of Wood and Cork Products, except Furniture and Manufacture of Articles of Straw and Plaiting Materials	Manufacture of Paper and Paper Products, Printing and Reproduction of Recorded Media	Manufacture of Coke and Refined Petroleum Products	Manufacture of Chemical and Chemical Products	Manufacture of Pharmaceuticals, Medicinal, Chemical, and Botanical Products	Manufacture of Rubber and Plastic Products	Manufacture of Nonmetallic Mineral Products	Manufacture of Basic Metals	Manufacture of Fabricated Metal Products, except Machinery and Equipment	Manufacture of Electrical and Optical Products	Manufacture of Machinery and Equipment, n.e.c.; and Motor Vehicles, Trailers and Semitrailers	
		01-019	014	02	03	07-09	10	11	12	13-15	16	17-18	19	20	21	22	23	24	25	26-27	28-29,33	
1	Agriculture, Horticulture, and Market Gardening Products	1,289,858	286,719	-	5,747	-	115	-	721	-	-	-	-	-	15	-	-	-	-	-	-	
2	Live Animals and Animal Products, excluding Meat	48,933	378,769	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	Forestry and Logging Products	98,081	-	-	-	-	-	-	-	-	74	3,848	-	-	-	-	-	-	-	-	-	
4	Fish and Other Fishing Products	-	-	-	687,422	-	85	54,523	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	Other Minerals	16	-	-	-	-	17,614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
6	Electricity, Town Gas, Steam, and Hot Water	89,941	-	-	11,858	175	231	7,346	1,487	42,658	152	7,939	-	2,787	30	11,323	610	27	748	-	8	
7	Water	23,886	-	-	4,238	450	880	9,987	5,085	20,206	393	9,873	-	5,202	78	6,177	1,576	70	3,464	-	26	
8	Meat, Fish, Fruits, Vegetables, Oils, and Fats	16,000	-	-	82,699	-	638,572	6,500	2,500	15,000	-	2,500	-	2,000	-	-	-	-	-	-	-	
9	Dairy Products and Egg Products	-	-	-	-	-	300,884	-	47,105	-	-	-	-	-	-	-	-	-	-	-	-	
10	Grain Mill Products, Starches and Starch Products, and Other Food Products	-	-	-	1,334	-	-	340,084	47,105	-	-	-	-	-	-	-	-	-	-	-	-	
11	Beverages	-	-	-	-	-	243	1,071,572	-	-	-	9	-	-	-	-	-	-	-	266	-	
12	Tobacco Products	-	-	-	-	-	-	-	-	276,857	-	-	-	-	-	-	-	-	-	-	-	
13	Yarn and Thread and Woven and Textile Textile Fabrics	-	-	-	-	-	-	-	-	-	343,392	-	-	-	-	-	-	-	-	-	-	
14	Textile Articles and Wearing Apparel	-	-	-	-	-	-	-	-	-	8,239,271	-	-	-	-	-	-	-	-	-	-	
15	Leather and Leather Products, and Footwear	-	-	-	-	-	-	-	-	-	497,489	-	-	-	-	-	-	-	-	-	-	
16	Products of Wood, Cork, Straw, and Plaiting Materials	-	-	-	-	-	-	-	-	-	3,569	79,899	-	-	-	-	-	-	-	-	-	
17	Pulp, Paper, and Paper Products, and Printed Matter and Related Articles	-	-	-	-	-	541	-	-	-	-	243,101	-	1,351	-	-	-	-	-	-	-	
18	Coke Oven Products, Refined Petroleum Products, and Nuclear Fuel	-	-	-	57,330	232,340	972	42,758	176,212	24,740	6,275	10	68	0	-	-	-	-	-	-	68	
19	Basic Chemicals	280,686	-	-	99,213	393,132	1,773	7,291	16,862	1,029	9,172	1,058	2,350	-	163,943	19	78	27	6,855	-	-	
20	Other Chemical Products and Man-Made Fibers	-	-	-	-	-	-	-	-	-	-	-	-	30,799	2,261	-	-	-	-	-	-	
21	Rubber and Plastics Products	-	-	-	-	-	-	-	-	-	-	-	-	-	710,522	-	-	-	-	-	-	
22	Glass and Glass Products, and Other Nonmetallic Products, n.e.c.	-	-	-	-	25,718	19,852	-	-	-	-	-	9	-	-	79,495	-	-	-	1,092	-	
23	Furniture and Other Transportable Goods, n.e.c.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,488	296	13	48,425	-	-	
24	Waste or Scrap	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
25	Basic Metals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48,321	-	-	
26	Fabricated Metal Products, except Machinery and Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13,115	-	
27	General-Purpose Machinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87,707	1,56	
28	Special-Purpose Machinery	-	-	-	-	-	-	20,951	-	-	-	5,318	1	-	-	-	-	-	-	538	541	
29	Office, Accounting, and Computing Machinery, and Electrical Machinery and Apparatus	45-46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	215	
30	Radios, Televisions, and Communication Equipment and Apparatus	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38	
31	Medical Appliances, Precision, and Optical Instruments, Watches, and Clocks	48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32	Transport Equipment	49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	
33	Construction and Construction Services	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
34	Wholesale and Retail Trade Services	61-62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
35	Accommodation, Food, and Beverage Services	63	42,181	-	53,340	210,387	2,610	18,076	45,621	1,787	136,087	517	652	8,845	1,853	1,305	143	136	5,132	-	3	
36	Passenger Transport Services	64	-	3	18,632	20	566	5,141	623	6,058	17	474	3	1,397	192	32	474	262	262	-	-	
37	Freight Transport Services	65	24,502	-	-	-	1,288	6,209	167	67,460	-	-	-	3,043	53	174	-	65	948	-	2	
38	Rental Services of Transport Vehicles with Operators	66	-	30	-	-	235	6,219	6,846	66,342	191	5,212	33	1,194	15,336	2,113	351	2,881	-	-	-	
39	Supporting Transport Services	67	69,436	54	1,692	2,636	391	10,798	88,094	115,384	332	9,049	-	2,073	57	26,662	3,668	610	5,001	-	-	
40	Postal and Courier Services	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
41	Electricity, Gas, and Water Distribution (on Own Account)	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	Financial and Related Services	71	131,123	29	41,169	115,453	3,528	2,543	4,289	1,307	4,448	267	526	3	646	276	82	32	1,935	-	1,37	
43	Real Estate Services	72	69,290	14	-	-	73,151	5,689	26,216	3,176	30,776	12,615	2,420	-	980	163	7,124	980	163	1,557	-	
44	Leasing or Rental Services without Operator	73	-	-	-	-	6,274	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
45	Research and Development Services	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
46	Legal and Accounting Services	82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
47	Other Professional, Technical, and Business Services	83	-	13	-	-	96	2,655	34,133	3,923	28,325	82	2,225	510	14	6,557	902	150	1,230	-	7	
48	Telecommunications, Broadcasting, and Information Supply Services	84	25	-	-	6,548	7,430	46,074	5,843	54,100	1,667	4,250	2	974	27	12,523	1,723	287	2,358	-	-	
49	Support Services	85	11	-	-	584	3,901	23,519	6,021	31,440	68	2,045	12	7,181	1,031	1,664	445	1,146	-	-	54	
50	Support Services to Agriculture, Hunting, Forestry, Fishing, Mining, and Utilities	86	166,723	36	18,530	14,147	1,808	2,514	636	259	1,666	14	475	139	3	201	61	3	124	-	-	
51	Maintenance, Repair, and Installation, except Construction, Services	87	1,960	-	23,433	92,759	87	418	1,097	242	2,150	328	6	1,463	0	18	6	1,566	-	-	1,89	
52	Manufacturing Services on Physical Inputs Owned by Others	88	-	-	-	-	-	45	-	-	55,262	927	9,641	616	-	1,092	1,736	35	22,364	-	6	
53	Other Manufacturing Services, Publishing, Printing, and Reproduction Services, and Materials Recovery Services	89	-	-	-	-	-	-	-	-	-	-	14,441	-	-	-	-	-	120,999	-	1,297	
54	Public Administration and Other Services Provided to the Community as a Whole and Compulsory Social Security Services	91	158,774	36	18,470	14,096	1,801	2,510	634	258	1,660	14	473	139	3	200	61	3	135	-	-	
55	Education Services	92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
56	Human Health and Social Care Services	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
57	Sewage and Waste Collection, Treatment, and Disposal and Other Environmental Protection Services	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
58	Services of Membership Organizations	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
59	Recreational, Cultural, and Sporting Services	96	-	-	-	-	478	3,390	9,247	3,021	2,547	-	32	103	-	1,694	827	265	90	-	23	
60	Other Services	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
70	Total	2,863,193	665,737	314,431	1,892,219	138,446	1,478,786	1,679,835	331,760	9,799,839	109,475	321,594	15	228,674	4,071	815,718	96,334	172,317	304,607	856	38,41	
80	Total Gross Value Added Gross Domestic Product	1,034,451	2,769,828	1,147,055	3,742,917	329,498	579,912	503,210	79,849	5,192,251	75,238	221,019	6	364,238	112,579	137,086	242,899	112,579	137,086	363,349	900	10,83
91	Compensation of Employees	4,251,671	1,083,385	553,932	1,839,147	50,227	230,788	200,193	31,767	1,653,771	37,372	93,905	2	69,844	2,061	46,299	29,759	71,021	90,699	224	2,97	
92	Other Taxes Less Subsidies on Production	-	-	-	-	-	1,001	18,632	3,568	417	29	77	1	398	6	0	0	11	-	-		

# THE 2014 SUT OF CAMBODIA



National Institute  
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NATIONAL CLASSIFICATION OF PRODUCTS BY ACTIVITY for SUT purposes													GDP= 103,453	
Length		NCPA	Imports	Output	Margins	Taxes	Total supply	Difference	Total demand	Interm demand	HFCE	Other exp	Exports	Label
		Total	68,598	183,082	137	6,083	257,900	2,727	260,627	88,576	82,137	21,470	68,445	
4	A1	A1-1	0	2,307	248	0	2,556	2,253	4,809	4,807	0	0	2	Paddy
4	A1	A1-2	63	500	61	0	624	-54	570	521	0	0	50	Cereals except rice
4	A1	A1-3	5	2,591	680	0	3,276	765	4,042	634	2,393	0	1,015	Vegetables
4	A1	A1-4	2	534	66	11	614	0	614	476	30	0	108	Oil seeds
4	A1	A1-5	57	1,524	403	0	1,985	-0	1,984	821	936	0	227	Fruit & nuts
4	A1	A1-6	33	1,204	130	0	1,367	-0	1,367	568	39	0	761	Industrial crops
4	A1	A1-8	0	0	0	0	0	0	0	0	0	0	0	Agricultural services
4	A2	A2-1	195	3,126	358	0	3,678	-31	3,647	3,596	0	0	50	Livestock
4	A2	A2-2	31	609	167	0	807	1	808	261	547	0	0	Livestock products
4	A3	A3-1	0	975	105	0	1,080	0	1,081	500	0	0	581	Plantations & logging
4	A3	A3-2	0	1,410	95	122	1,628	0	1,629	201	1,414	0	14	Other forestry products
4	A4	A4-0	6	9,745	2,139	0	11,889	-13	11,877	4,209	7,657	0	10	Fishing
4	B0	B0-1	719	0	57	0	776	0	776	765	0	0	11	Mining of coal, crude oil & gas, and metal ores
4	B0	B0-9	98	129	19	5	251	0	251	-365	58	0	558	Other mining & quarrying
4	C1	C1-1	163	3,733	1,482	266	5,644	35	5,680	734	4,938	0	8	Processing of meat
4	C1	C1-2	172	622	260	61	1,115	15	1,130	265	842	0	23	Processing of fish
4	C1	C1-3	168	209	137	61	574	1	575	75	498	0	2	Processing of fruit & vegetables
4	C1	C1-4	664	125	76	38	903	0	903	105	700	0	98	Animal & vegetable oil & fat
4	C1	C1-5	317	150	64	23	554	-0	554	205	348	0	0	Dairy products
4	C1	C1-6	115	5,090	630	9	5,844	-1	5,843	601	4,009	0	1,233	Grain milling & milling services
4	C1	C1-7	2,141	1,514	540	277	4,472	-43	4,429	1,956	2,330	0	144	Other food manufacturing
4	C1	C1-9	581	2,259	93	0	2,933	0	2,933	2,803	0	0	130	Animal feed manufacturing
4	C2	C2-1	331	448	48	99	925	-8	917	316	600	0	1	Manufacture of wines & spirits
4	C2	C2-2	468	1,082	135	133	1,818	0	1,818	1,522	294	0	3	Manufacture of beer & malt
4	C2	C2-3	912	131	130	133	1,306	-0	1,306	353	941	0	12	Manufacture of soft drinks, drinking water & ice
4	C2	C2-5	1,161	301	146	310	1,918	0	1,918	0	1,711	0	207	Manufacture of tobacco products

# DATA SOURCES



National Institute  
of Statistics  
Ministry of Planning  
CAMBODIA

The data sources for the 2014 SUT:

- 2014 Cambodia Inter-censal Economic Survey.
- 2014 Cambodia Socio Economic Survey.
- Balance of Payment of Cambodia, 2014.
- Custom Data (Import and Export Data), 2014
- Government Finance Statistics

# DATA SOURCES



National Institute  
of Statistics

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The data sources for the 2014 SUT:

- Mirror Trade Statistics
- Financial Statements of some business enterprises
- Other related administrative data



# COMPILATION ISSUES



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- Infrequent survey data
- Limited sources of administrative data
- Data quality constrains (both administrative and survey data)
- Different classifications between data sources
- Human resource constrains



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THANK YOU FOR YOUR ATTENTION