

About the International Comparison Program

The International Comparison Program (ICP) is the largest worldwide data-collection initiative, implemented under the guidance of the United Nations Statistical Commission (UNSC) with the goal of producing comparable price and volume measures of national accounts aggregates across economies of the world. Along with the purchasing power parities (PPPs), the ICP produces price level indexes (PLI) and other comparable aggregates of gross domestic product (GDP) expenditure and its components.

More specifically, the PPPs are used to compute real measures of GDP and its components: individual consumption expenditure by households (ICEH), actual individual consumption by households (AICH), government final consumption expenditure (GFCE), gross fixed capital formation (GFCF), and lower levels of national accounts aggregates. These measures allow more meaningful inter-economy comparisons, as they correct for distortions due to differences in the price levels between economies.

ICP in Asia and the Pacific

The Asian Development Bank (ADB) through the Economic Research and Regional Cooperation Department has been the regional implementing agency (RIA) of the ICP for Asia and the Pacific since the 2005 ICP round. ADB in its capacity as the RIA was responsible for coordinating with the 22 economies that participated in the 2017 ICP. These 22 economies are: Bangladesh; Bhutan; Brunei Darussalam; Cambodia; Fiji; Hong Kong, China; India; Indonesia; the Lao People's Democratic Republic; Malaysia; Maldives; Mongolia; Myanmar; Nepal; Pakistan; the People's Republic of China; the Philippines; Singapore; Sri Lanka; Taipei, China; Thailand; and Viet Nam.

Concepts and Measures

Purchasing Power Parity	The amount of currency units required to purchase a common basket of goods and services in an economy that can be purchased with one unit of the reference currency in the reference economy.
Price Level Index	The ratio of PPP to exchange rate with respect to a common reference currency. PLI expresses the general price level in an economy as percentage of reference economy's price level and shows how the price levels of economies compare with each other. The PLI of the reference economy is 100. A PLI greater than 100 means that when the national average prices are converted at exchange rates, the resulting prices tend to be higher on average than prices in the reference economy.
Real Expenditure	Expenditure in the currency units of an economy converted to a common currency by dividing the expenditure by its corresponding PPP, and hence, valued at a uniform price level across economies.
Nominal Expenditure	Expenditures in the currency units of an economy converted to a common currency using the exchange rate of a reference economy without adjusting for the differences in prices of goods and services across economies.
Per Capita Expenditure	Total expenditure divided by the total population of a given economy. Per capita expenditure measures the standard of living in an economy. This can be expressed either in real or nominal terms.
Per Capita Relative Expenditure	Per capita expenditure that has been converted to the relative units of the reference economy by (i) dividing the per capita expenditure of a given economy by the per capita expenditure of the reference economy and then (ii) multiplying by 100.
Transitivity	An important property of PPP whereby the direct PPP between any two economies yields the same result as an indirect comparison via any other economy.
Base Economy Invariance	The property under which the relativities between the PPPs, PLIs, and volume indexes of economies are not affected by the choice of reference economy or currency.
Economy Share to Asia and the Pacific	An economy's real or nominal expenditures for an aggregate, expressed as a percentage of the total real or nominal expenditure of all participating economies in Asia and the Pacific.
Shares of Nominal Expenditure	An aggregate's nominal expenditure as a percentage of the total nominal expenditure within the economy.

Data and Sources

This file has two sheets: one for the 2017 ICP results and second for 2011 ICP (revised) results. Each sheet contains indicators on PPPs, PLIs, GDP, and aggregates such as AICH, ICEH, nonprofit institutions serving households (NPISH), collective consumption expenditure by government, GFCE, GFCF, change in inventories and net acquisitions of valuables, balance of exports and imports, and subcomponents of these aggregates. The 2017 ICP and 2011 revised ICP results are compiled with Hong Kong, China as the reference economy and the Hong Kong dollar as the reference currency. Each real aggregate value is derived by using a purchasing power parity that is specific to that aggregate, so real aggregates may not sum up to the total of their real components for an economy.

The 2011 revised results are revisions of the 2011 original ICP results based on revisions in the 2011 GDP estimates; revisions in the population estimates; refinements in methods, such as for estimating the adjustment factors to account for the differences in productivity of government; changes in reference PPPs for some basic headings; and minor changes in ICP classification between 2017 and 2011. The annual average prices are the same as used for 2011 original results and remain unchanged. The methods used for estimating the results for 2011 revised are same as the methods used for 2017 ICP results.

The 2017 and 2011 revised results presented in these tables are produced by the ICP Asia Pacific regional implementing agency, based on data supplied by all the participating economies, and in accordance with the methodology recommended by the ICP Technical Advisory Group and approved by the Asia and the Pacific Regional Advisory Board. As such, these results are not produced by participating economies as part of the economies' official statistics.

2017 International Comparison Program for Asia and the Pacific

Viet Nam, 2017

Expenditure Category	Purchasing Power Parities (HK\$ = 1.00)	Real Expenditure		Per Capita Real Expenditure		Nominal Expenditure		Per Capita Nominal Expenditure		Nominal Expenditure Shares, (%)	PLIs	
		(HK\$ billion)	Economy Share to Asia and the Pacific, (%)	HK\$	Index (Asia and the Pacific = 100)	(HK\$ billion)	Economy Share to Asia and the Pacific, (%)	HK\$	Index (Asia and the Pacific = 100)		(HKG = 100)	(Asia and the Pacific = 100)
Gross Domestic Product	1,230.21	4,069	1.75	43,179	70	1,744	1.17	18,506	47	100.00	43	67
Actual Individual Consumption by Households ^a	1,174.31	2,729	2.03	28,955	82	1,116	1.42	11,845	57	64.01	41	70
Food and non-alcoholic beverages	1,399.93	656	2.39	6,966	96	320	2.04	3,397	82	18.36	49	85
Food	1,387.67	637	2.39	6,758	96	308	2.04	3,267	82	17.65	48	86
Bread and cereals	1,512.19	174	3.14	1,850	126	92	2.68	974	108	5.27	53	85
Meat and fish	1,348.70	272	3.91	2,881	157	128	3.07	1,354	123	7.32	47	79
Fruits and vegetables	1,339.90	96	1.33	1,020	53	45	1.26	476	51	2.57	47	95
Other food and non-alcoholic beverages	1,440.01	111	1.38	1,182	55	56	1.22	593	49	3.20	50	89
Clothing and footwear	1,398.93	114	2.29	1,211	92	56	1.50	590	60	3.19	49	65
Clothing	1,339.04	100	2.43	1,057	98	46	1.58	493	63	2.66	47	65
Housing, water, electricity, gas and other fuels	1,204.73	587	2.59	6,230	104	246	2.30	2,615	92	14.13	42	89
Health and education	542.92	1,080	2.60	11,458	105	204	1.20	2,167	48	11.71	19	46
Health	653.21	436	1.81	4,622	73	99	1.10	1,052	44	5.68	23	61
Education	456.55	661	3.59	7,012	144	105	1.32	1,115	53	6.03	16	37
Transportation and communication	1,535.26	277	1.59	2,938	64	148	1.48	1,572	59	8.49	53	93
Transportation	1,624.48	248	1.80	2,630	72	140	1.81	1,488	73	8.04	57	101
Recreation and culture	1,657.38	85	2.16	899	87	49	1.42	519	57	2.81	58	66
Restaurants and hotels	1,133.87	125	2.31	1,322	93	49	1.41	522	57	2.82	40	61
Other consumption expenditure items	1,230.12	353	1.72	3,747	69	151	1.01	1,606	41	8.68	43	59
Individual Consumption Expenditure by Government	609.30	405	2.13	4,302	85	86	0.76	913	31	4.93	21	36
Collective Consumption Expenditure by Government	839.84	394	2.60	4,178	104	115	1.18	1,222	47	6.61	29	45
Gross Fixed Capital Formation	1,497.52	795	1.06	8,435	43	415	0.75	4,401	30	23.78	52	71
Machinery and equipment	2,656.58	104	0.93	1,109	37	97	0.82	1,026	33	5.54	93	88
Construction	963.83	879	1.31	9,326	53	295	0.82	3,131	33	16.92	34	62
Change in Inventories and Net Acquisitions of Valuables	1,470.82	95	2.12	1,012	85	49	1.66	518	67	2.80	51	78
Balance of Exports and Imports	2,870.44	49	2.09	519	84	49	2.09	519	84	2.80	100	100
Individual Consumption Expenditure by Households and NPISH	1,250.81	2,364	2.02	25,088	81	1,030	1.52	10,932	61	59.07	44	76
Government Final Consumption Expenditure	733.48	788	2.34	8,358	94	201	0.95	2,136	38	11.54	26	41
Actual Individual Consumption by Households ^a	1,174.31	2,729	2.03	28,955	82	1,116	1.42	11,845	57	64.01	41	70
All goods	1,572.13	1,390	2.52	14,754	101	762	2.02	8,081	81	43.67	55	80
Non-durables	1,376.34	1,149	2.56	12,195	103	551	2.07	5,847	83	31.60	48	81
Semi-durables	1,585.95	134	2.05	1,421	82	74	1.32	785	53	4.24	55	64
Durables	2,413.51	162	2.60	1,722	104	136	2.45	1,448	98	7.83	84	94
Services	1,047.27	1,018	1.72	10,800	69	371	1.25	3,940	50	21.29	36	73

Reference Data

Exchange rate (Local Currency Units/Hong Kong dollar)	2870.44
Total Population (in million)	94.24

HK\$ = Hong Kong dollar; HKG = Hong Kong, China; NPISH=nonprofit institutions serving households; PLI = price level index.

^a Includes individual consumption expenditure by households, nonprofit institutions serving households, and government.

Sources: Asian Development Bank estimates. For exchange rate: International Monetary Fund. International Financial Statistics. <http://data.imf.org/> (accessed 17 September 2019). Data for population refers to mid-year estimates supplied by the participating economy for the International Comparison Program.

2017 International Comparison Program for Asia and the Pacific

Viet Nam, 2011 (Revised)

Expenditure Category	Purchasing Power Parities (HK\$ = 1.00)	Real Expenditure		Per Capita Real Expenditure		Nominal Expenditure		Per Capita Nominal Expenditure		Nominal Expenditure Shares, (%)	PLIs	
		(HK\$ billion)	Economy Share to Asia and the Pacific, (%)	HK\$	Index (Asia and the Pacific = 100)	(HK\$ billion)	Economy Share to Asia and the Pacific, (%)	HK\$	Index (Asia and the Pacific = 100)		(HKG = 100)	(Asia and the Pacific = 100)
Gross Domestic Product	1,321.50	2,104	1.46	23,874	59	1,055	1.05	11,974	42	100.00	50	72
Actual Individual Consumption by Households ^a	1,250.82	1,409	1.77	15,995	72	669	1.32	7,593	53	63.41	47	75
Food and non-alcoholic beverages	1,580.74	336	1.87	3,811	76	201	1.71	2,286	69	19.09	60	91
Food	1,577.37	325	1.87	3,690	76	195	1.72	2,209	69	18.45	60	92
Bread and cereals	1,695.16	90	2.30	1,025	93	58	2.06	660	83	5.51	64	89
Meat and fish	1,674.44	127	3.08	1,437	125	80	2.80	913	113	7.63	64	91
Fruits and vegetables	1,294.51	58	1.24	654	50	28	1.09	321	44	2.68	49	89
Other food and non-alcoholic beverages	1,597.29	57	1.07	646	43	35	0.99	392	40	3.27	61	92
Clothing and footwear	1,460.10	56	1.70	633	69	31	1.07	351	43	2.93	55	63
Clothing	1,499.23	46	1.72	521	70	26	1.10	297	44	2.48	57	64
Housing, water, electricity, gas and other fuels	1,276.10	313	2.08	3,553	84	152	2.14	1,721	86	14.37	48	103
Health and education	465.65	619	2.90	7,028	117	109	1.13	1,242	46	10.37	18	39
Health	485.78	280	2.29	3,178	93	52	0.98	586	40	4.89	18	43
Education	445.24	342	3.52	3,883	142	58	1.31	656	53	5.48	17	37
Transportation and communication	2,248.00	87	1.03	986	42	74	1.22	841	49	7.02	85	118
Transportation	2,032.48	89	1.30	1,008	53	69	1.52	778	62	6.50	77	117
Recreation and culture	1,683.11	46	1.68	523	68	29	1.23	334	50	2.79	64	73
Restaurants and hotels	1,254.33	63	1.67	720	68	30	1.17	343	47	2.86	48	70
Other consumption expenditure items	1,133.77	200	1.75	2,264	71	86	1.03	974	42	8.14	43	59
Individual Consumption Expenditure by Government	594.48	209	1.73	2,377	70	47	0.70	536	28	4.48	23	40
Collective Consumption Expenditure by Government	865.87	190	1.87	2,154	76	62	0.95	708	38	5.91	33	51
Gross Fixed Capital Formation	1,562.53	529	1.06	6,007	43	314	0.81	3,562	33	29.75	59	77
Machinery and equipment	2,338.42	90	0.80	1,025	33	80	0.71	910	29	7.60	89	89
Construction	1,060.56	532	1.31	6,041	53	214	0.91	2,432	37	20.31	40	70
Change in Inventories and Net Acquisitions of Valuables	1,565.61	90	2.40	1,019	97	53	1.92	606	78	5.06	59	80
Balance of Exports and Imports	2,634.86	-44	-2.15	-495	-87	-44	-2.15	-495	-87	-4.13	100	100
Individual Consumption Expenditure by Households and NPISH	1,333.17	1,229	1.79	13,947	72	622	1.42	7,057	57	58.94	51	79
Government Final Consumption Expenditure	740.37	390	1.79	4,427	73	110	0.82	1,244	33	10.39	28	46
Actual Individual Consumption by Households ^a	1,250.82	1,409	1.77	15,995	72	669	1.32	7,593	53	63.41	47	75
All goods	1,627.87	704	1.97	7,994	80	435	1.61	4,939	65	41.25	62	81
Non-durables	1,401.57	611	2.11	6,933	85	325	1.70	3,688	69	30.80	53	81
Semi-durables	1,636.72	68	1.57	768	63	42	1.01	477	41	3.98	62	64
Durables	2,830.74	63	1.65	720	67	68	1.79	774	72	6.46	107	108
Services	1,129.23	531	1.73	6,030	70	228	1.36	2,584	55	21.58	43	79

Reference Data

Exchange rate (Local Currency Units/Hong Kong dollar)	2,634.86
Total Population (in million)	88.11

HK\$ = Hong Kong dollar; HKG = Hong Kong, China; NPISH=nonprofit institutions serving households; PLI = price level index.

^a Includes individual consumption expenditure by households, nonprofit institutions serving households, and government.

Sources: Asian Development Bank estimates. For exchange rate: International Monetary Fund. International Financial Statistics. <http://data.imf.org/> (accessed 17 September 2019). Data for population refers to mid-year estimates supplied by the participating economy for the International Comparison Program.