

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

Thailand, 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	2.14	7,232	3.11	106,892	174	3,548	2.38	52,444	133	100.00	49	77
Actual Individual Consumption by Households ^a	2.05	4,202	3.13	62,106	175	1,977	2.51	29,226	140	55.73	47	80
Food and non-alcoholic beverages	2.31	881	3.21	13,023	179	467	2.97	6,896	166	13.15	53	93
Food	2.28	775	2.91	11,450	163	406	2.69	5,997	151	11.44	52	93
Bread and cereals	2.52	150	2.70	2,219	151	87	2.53	1,282	142	2.44	58	94
Meat and fish	2.06	208	2.99	3,072	167	98	2.37	1,455	132	2.77	47	79
Fruits and vegetables	2.42	269	3.71	3,971	208	149	4.21	2,209	235	4.21	56	113
Other food and non-alcoholic beverages	2.28	252	3.12	3,730	175	132	2.88	1,950	161	3.72	52	92
Clothing and footwear	2.13	64	1.29	951	72	31	0.85	465	47	0.89	49	66
Clothing	2.02	65	1.58	961	89	30	1.02	445	57	0.85	46	65
Housing, water, electricity, gas and other fuels	1.41	533	2.35	7,885	132	173	1.61	2,555	90	4.87	32	68
Health and education	1.21	1,348	3.25	19,927	182	373	2.20	5,518	123	10.52	28	68
Health	1.37	574	2.38	8,487	133	180	2.00	2,661	112	5.07	31	84
Education	1.07	787	4.28	11,637	239	193	2.42	2,857	135	5.45	25	57
Transportation and communication	2.53	472	2.72	6,982	152	274	2.73	4,056	153	7.73	58	101
Transportation	2.46	416	3.01	6,146	169	235	3.04	3,473	170	6.62	57	101
Recreation and culture	3.27	127	3.24	1,882	181	96	2.77	1,414	155	2.70	75	86
Restaurants and hotels	1.99	376	6.96	5,556	389	171	4.91	2,533	275	4.83	46	71
Other consumption expenditure items	2.54	670	3.27	9,910	183	392	2.61	5,789	146	11.04	58	80
Individual Consumption Expenditure by Government	1.40	883	4.64	13,057	259	283	2.50	4,184	140	7.98	32	54
Collective Consumption Expenditure by Government	1.91	652	4.30	9,640	241	286	2.93	4,230	164	8.07	44	68
Gross Fixed Capital Formation	2.34	1,500	2.00	22,173	112	805	1.47	11,906	82	22.70	54	73
Machinery and equipment	4.16	489	4.35	7,234	243	468	3.95	6,912	221	13.18	96	91
Construction	1.46	812	1.21	11,997	68	273	0.75	4,030	42	7.68	34	62
Change in Inventories and Net Acquisitions of Valuables	2.47	-20	-0.45	-300	-25	-12	-0.39	-170	-22	-0.32	57	87
Balance of Exports and Imports	4.36	491	20.94	7,253	1,172	491	20.94	7,253	1,172	13.83	100	100
Individual Consumption Expenditure by Households and NPISH	2.13	3,466	2.96	51,232	166	1,694	2.51	25,042	140	47.75	49	85
Government Final Consumption Expenditure	1.67	1,487	4.41	21,978	247	569	2.70	8,414	151	16.04	38	61
Actual Individual Consumption by Households ^a	2.05	4,202	3.13	62,106	175	1,977	2.51	29,226	140	55.73	47	80
All goods	2.76	1,582	2.87	23,390	161	1,002	2.66	14,815	149	28.25	63	92
Non-durables	2.47	1,350	3.00	19,956	168	765	2.88	11,313	161	21.57	57	96
Semi-durables	2.76	144	2.20	2,121	123	91	1.62	1,344	91	2.56	63	74
Durables	3.83	166	2.66	2,452	149	146	2.62	2,158	146	4.11	88	99
Services	1.63	1,755	2.96	25,942	166	657	2.21	9,710	123	18.51	37	75

Reference Data

Exchange rate (Local Currency Units/Hong Kong dollar)	4.36
Total Population (in million)	67.65

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

Thailand, 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	2.37	4,776	3.31	72,134	178	2,886	2.87	43,593	154	100.00	60	87
Actual Individual Consumption by Households ^a	2.21	3,169	3.98	47,858	214	1,789	3.53	27,014	190	61.97	56	89
Food and non-alcoholic beverages	2.66	663	3.70	10,019	199	450	3.82	6,803	206	15.61	68	103
Food	2.63	589	3.38	8,890	182	395	3.48	5,960	187	13.67	67	103
Bread and cereals	3.16	108	2.76	1,637	149	87	3.09	1,320	167	3.03	81	112
Meat and fish	2.31	167	4.08	2,528	219	99	3.43	1,488	185	3.41	59	84
Fruits and vegetables	2.49	213	4.58	3,223	246	136	5.24	2,047	282	4.70	64	114
Other food and non-alcoholic beverages	2.80	180	3.40	2,723	183	129	3.69	1,948	199	4.47	72	109
Clothing and footwear	2.68	81	2.48	1,230	134	56	1.94	842	104	1.93	68	78
Clothing	2.75	75	2.82	1,135	152	53	2.21	797	119	1.83	70	79
Housing, water, electricity, gas and other fuels	1.27	449	2.98	6,787	160	146	2.06	2,203	111	5.05	32	69
Health and education	1.43	853	3.99	12,881	215	311	3.21	4,698	173	10.78	36	80
Health	1.46	393	3.22	5,941	173	146	2.79	2,210	150	5.07	37	87
Education	1.39	465	4.78	7,029	257	165	3.72	2,488	200	5.71	35	78
Transportation and communication	2.81	396	4.69	5,975	253	284	4.67	4,289	251	9.84	72	100
Transportation	2.55	380	5.55	5,739	299	248	5.51	3,741	297	8.58	65	99
Recreation and culture	3.32	93	3.39	1,399	182	79	3.28	1,187	177	2.72	85	97
Restaurants and hotels	1.89	288	7.59	4,351	409	139	5.40	2,104	291	4.83	48	71
Other consumption expenditure items	2.64	481	4.21	7,268	227	324	3.88	4,889	209	11.22	67	92
Individual Consumption Expenditure by Government	1.65	538	4.45	8,125	239	227	3.35	3,428	180	7.86	42	75
Collective Consumption Expenditure by Government	2.32	421	4.15	6,357	223	249	3.79	3,761	204	8.63	59	91
Gross Fixed Capital Formation	2.56	1,166	2.33	17,610	126	761	1.98	11,497	106	26.37	65	85
Machinery and equipment	3.74	511	4.55	7,716	245	488	4.35	7,365	234	16.90	95	96
Construction	1.69	554	1.36	8,363	73	239	1.02	3,607	55	8.27	43	75
Change in Inventories and Net Acquisitions of Valuables	2.68	42	1.12	634	60	29	1.03	434	56	1.00	69	92
Balance of Exports and Imports	3.92	59	2.90	887	156	59	2.90	887	156	2.03	100	100
Individual Consumption Expenditure by Households and NPISH	2.26	2,708	3.93	40,892	212	1,562	3.56	23,586	192	54.10	58	90
Government Final Consumption Expenditure	2.01	927	4.26	14,002	230	476	3.56	7,189	192	16.49	51	84
Actual Individual Consumption by Households ^a	2.21	3,169	3.98	47,858	214	1,789	3.53	27,014	190	61.97	56	89
All goods	2.87	1,328	3.72	20,054	200	973	3.59	14,695	193	33.71	73	97
Non-durables	2.63	1,073	3.71	16,203	200	721	3.77	10,882	203	24.96	67	102
Semi-durables	3.02	143	3.31	2,155	178	110	2.64	1,663	142	3.82	77	80
Durables	3.62	154	4.02	2,329	216	142	3.73	2,150	201	4.93	92	93
Services	1.71	1,279	4.17	19,322	225	560	3.35	8,458	180	19.40	44	80
Reference Data												
Exchange rate (Local Currency Units/Hong Kong dollar)			3.92									
Total Population (in million)			66.21									

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.