

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

India, 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	3.43	48,395	20.83	36,965	60	19,893	13.36	15,194	39	100.00	41	64
Actual Individual Consumption by Households ^a	3.15	32,884	24.49	25,118	71	12,382	15.70	9,458	45	62.25	38	64
Food and non-alcoholic beverages	3.30	8,316	30.27	6,352	88	3,283	20.90	2,508	60	16.50	39	69
Food	3.24	8,343	31.31	6,373	91	3,234	21.47	2,470	62	16.26	39	69
Bread and cereals	3.51	1,762	31.70	1,346	92	740	21.59	565	62	3.72	42	68
Meat and fish	3.64	706	10.16	539	29	308	7.40	235	21	1.55	44	73
Fruits and vegetables	2.65	2,972	41.09	2,270	119	943	26.54	720	77	4.74	32	65
Other food and non-alcoholic beverages	3.57	3,028	37.46	2,313	108	1,292	28.26	987	82	6.50	43	75
Clothing and footwear	3.13	2,236	44.78	1,708	129	838	22.53	640	65	4.21	37	50
Clothing	3.04	1,829	44.57	1,397	129	665	22.58	508	65	3.34	36	51
Housing, water, electricity, gas and other fuels	2.56	5,408	23.83	4,131	69	1,657	15.44	1,266	45	8.33	31	65
Health and education	1.69	8,246	19.89	6,299	58	1,667	9.81	1,273	28	8.38	20	49
Health	1.49	4,124	17.12	3,150	50	735	8.16	562	24	3.70	18	48
Education	1.91	4,075	22.14	3,113	64	932	11.66	712	34	4.68	23	53
Transportation and communication	3.76	4,680	26.93	3,574	78	2,108	21.00	1,610	61	10.60	45	78
Transportation	3.95	3,984	28.88	3,043	84	1,884	24.36	1,439	70	9.47	47	84
Recreation and culture	4.56	199	5.06	152	15	109	3.15	83	9	0.55	55	62
Restaurants and hotels	3.98	491	9.08	375	26	234	6.70	179	19	1.18	48	74
Other consumption expenditure items	4.29	4,980	24.32	3,804	70	2,557	17.06	1,953	49	12.86	51	70
Individual Consumption Expenditure by Government	3.71	1,523	7.99	1,163	23	677	5.98	517	17	3.40	44	75
Collective Consumption Expenditure by Government	4.54	2,701	17.83	2,063	52	1,467	15.01	1,120	43	7.37	54	84
Gross Fixed Capital Formation	3.86	12,227	16.32	9,339	47	5,649	10.28	4,315	30	28.40	46	63
Machinery and equipment	6.69	2,130	18.94	1,627	55	1,706	14.41	1,303	42	8.58	80	76
Construction	2.53	9,603	14.36	7,335	42	2,909	8.04	2,222	23	14.62	30	56
Change in Inventories and Net Acquisitions of Valuables	3.93	2,058	45.74	1,572	132	968	32.84	739	95	4.87	47	72
Balance of Exports and Imports	8.36	-573	-24.46	-438	-71	-573	-24.46	-438	-71	-2.88	100	100
Individual Consumption Expenditure by Households and NPISH	3.12	31,360	26.78	23,954	77	11,706	17.33	8,941	50	58.84	37	65
Government Final Consumption Expenditure	4.15	4,312	12.79	3,294	37	2,144	10.17	1,637	29	10.78	50	79
Actual Individual Consumption by Households ^a	3.15	32,884	24.49	25,118	71	12,382	15.70	9,458	45	62.25	38	64
All goods	3.91	14,128	25.63	10,792	74	6,609	17.51	5,048	51	33.22	47	68
Non-durables	3.49	12,433	27.67	9,496	80	5,191	19.53	3,965	56	26.09	42	71
Semi-durables	3.76	2,072	31.74	1,582	92	931	16.63	711	48	4.68	45	52
Durables	5.79	702	11.24	537	33	487	8.73	372	25	2.45	69	78
Services	2.49	17,359	29.27	13,259	85	5,168	17.36	3,947	50	25.98	30	59
Reference Data												
Exchange rate (Local Currency Units/Hong Kong dollar)	8.36											
Total Population (in million)	1309.20											

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

India, 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	2.97	28,688	19.86	23,589	58	14,220	14.14	11,692	41	100.00	50	71
Actual Individual Consumption by Households ^a	2.66	18,921	23.78	15,558	70	8,393	16.57	6,901	49	59.02	44	70
Food and non-alcoholic beverages	2.81	5,177	28.88	4,257	85	2,423	20.57	1,992	60	17.04	47	71
Food	2.76	5,166	29.67	4,248	87	2,376	20.97	1,954	61	16.71	46	71
Bread and cereals	3.02	1,162	29.59	955	87	586	20.73	482	61	4.12	50	70
Meat and fish	2.93	394	9.59	324	28	192	6.69	158	20	1.35	49	70
Fruits and vegetables	2.35	1,633	35.03	1,343	103	641	24.78	527	73	4.51	39	71
Other food and non-alcoholic beverages	3.02	1,994	37.57	1,640	110	1,004	28.71	825	84	7.06	50	76
Clothing and footwear	2.79	1,082	33.02	890	97	503	17.49	414	51	3.54	46	53
Clothing	2.72	892	33.40	733	98	404	16.97	333	50	2.84	45	51
Housing, water, electricity, gas and other fuels	2.17	3,596	23.85	2,957	70	1,304	18.38	1,072	54	9.17	36	77
Health and education	1.35	4,340	20.32	3,568	60	979	10.11	805	30	6.88	23	50
Health	1.12	2,100	17.18	1,726	50	393	7.49	323	22	2.77	19	44
Education	1.62	2,172	22.32	1,786	65	585	13.22	481	39	4.12	27	59
Transportation and communication	3.63	2,289	27.15	1,882	80	1,388	22.81	1,141	67	9.76	61	84
Transportation	3.52	2,051	29.96	1,687	88	1,203	26.76	989	78	8.46	59	89
Recreation and culture	4.56	120	4.40	99	13	92	3.82	75	11	0.64	76	87
Restaurants and hotels	3.67	307	8.10	253	24	188	7.29	155	21	1.32	61	90
Other consumption expenditure items	3.19	2,928	25.64	2,408	75	1,558	18.68	1,281	55	10.95	53	73
Individual Consumption Expenditure by Government	2.32	1,188	9.82	977	29	460	6.77	378	20	3.23	39	69
Collective Consumption Expenditure by Government	2.91	2,305	22.73	1,895	67	1,119	17.02	920	50	7.87	49	75
Gross Fixed Capital Formation	3.58	7,882	15.77	6,481	46	4,709	12.22	3,872	36	33.11	60	77
Machinery and equipment	5.33	1,604	14.29	1,319	42	1,428	12.72	1,174	37	10.04	89	89
Construction	2.39	6,784	16.65	5,578	49	2,707	11.52	2,226	34	19.04	40	69
Change in Inventories and Net Acquisitions of Valuables	3.53	1,338	35.80	1,100	105	787	28.27	647	83	5.54	59	79
Balance of Exports and Imports	6.00	-788	-38.91	-648	-114	-788	-38.91	-648	-114	-5.54	100	100
Individual Consumption Expenditure by Households and NPISH	2.71	17,575	25.53	14,452	75	7,933	18.08	6,523	53	55.79	45	71
Government Final Consumption Expenditure	2.65	3,577	16.45	2,941	48	1,579	11.82	1,298	35	11.10	44	72
Actual Individual Consumption by Households ^a	2.66	18,921	23.78	15,558	70	8,393	16.57	6,901	49	59.02	44	70
All goods	3.12	8,835	24.76	7,265	73	4,604	17.00	3,785	50	32.38	52	69
Non-durables	2.78	7,986	27.62	6,566	81	3,702	19.39	3,044	57	26.04	46	70
Semi-durables	3.28	1,067	24.74	878	73	583	13.97	480	41	4.10	55	56
Durables	4.93	387	10.09	318	30	318	8.34	262	24	2.24	82	83
Services	2.40	8,411	27.42	6,916	80	3,371	20.15	2,772	59	23.71	40	73
Reference Data												
Exchange rate (Local Currency Units/Hong Kong dollar)		6.00										
Total Population (in million)		1,216.15										

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.