

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

Pakistan, 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	5.59	5,954	2.56	29,905	49	2,459	1.65	12,349	31	100.00	41	64
Actual Individual Consumption by Households ^a	5.25	5,495	4.09	27,599	78	2,131	2.70	10,704	51	86.68	39	66
Food and non-alcoholic beverages	6.35	1,458	5.31	7,322	101	685	4.36	3,438	83	27.84	47	82
Food	6.26	1,407	5.28	7,066	100	651	4.32	3,271	82	26.49	46	82
Bread and cereals	6.61	327	5.88	1,641	112	160	4.66	801	89	6.49	49	79
Meat and fish	5.85	158	2.28	796	43	69	1.65	344	31	2.79	43	72
Fruits and vegetables	5.52	249	3.44	1,249	65	102	2.86	510	54	4.13	41	83
Other food and non-alcoholic beverages	6.77	710	8.78	3,565	167	355	7.76	1,783	148	14.44	50	88
Clothing and footwear	7.10	319	6.39	1,601	121	167	4.50	840	86	6.80	52	70
Clothing	6.86	266	6.48	1,335	123	135	4.57	676	87	5.48	51	71
Housing, water, electricity, gas and other fuels	3.93	1,469	6.47	7,376	123	426	3.97	2,140	75	17.33	29	61
Health and education	2.76	1,387	3.35	6,967	64	283	1.66	1,419	32	11.49	20	50
Health	3.11	738	3.07	3,709	58	170	1.88	852	36	6.90	23	61
Education	2.42	630	3.43	3,166	65	113	1.41	567	27	4.59	18	41
Transportation and communication	6.11	336	1.94	1,689	37	152	1.51	763	29	6.18	45	78
Transportation	6.46	232	1.68	1,166	32	111	1.43	557	27	4.51	48	85
Recreation and culture	8.00	147	3.75	740	71	87	2.52	437	48	3.54	59	67
Restaurants and hotels	6.38	123	2.28	617	43	58	1.66	291	32	2.36	47	73
Other consumption expenditure items	6.13	604	2.95	3,035	56	274	1.83	1,376	35	11.14	45	62
Individual Consumption Expenditure by Government	4.77	312	1.63	1,565	31	110	0.97	551	18	4.46	35	59
Collective Consumption Expenditure by Government	5.72	409	2.70	2,056	51	173	1.77	869	34	7.04	42	66
Gross Fixed Capital Formation	7.08	698	0.93	3,505	18	365	0.66	1,835	13	14.86	52	71
Machinery and equipment	12.43	138	1.23	695	23	127	1.07	638	20	5.17	92	87
Construction	4.51	469	0.70	2,354	13	156	0.43	784	8	6.35	33	62
Change in Inventories and Net Acquisitions of Valuables	6.21	86	1.91	431	36	39	1.33	198	25	1.60	46	70
Balance of Exports and Imports	13.53	-250	-10.68	-1,257	-203	-250	-10.68	-1,257	-203	-10.18	100	100
Individual Consumption Expenditure by Households and NPISH	5.33	5,135	4.39	25,791	83	2,022	2.99	10,153	57	82.22	39	68
Government Final Consumption Expenditure	5.27	727	2.16	3,649	41	283	1.34	1,420	26	11.50	39	62
Actual Individual Consumption by Households ^a	5.25	5,495	4.09	27,599	78	2,131	2.70	10,704	51	86.68	39	66
All goods	6.41	2,766	5.02	13,890	95	1,311	3.47	6,585	66	53.33	47	69
Non-durables	5.58	2,626	5.84	13,188	111	1,083	4.07	5,438	77	44.04	41	70
Semi-durables	7.37	318	4.87	1,598	93	173	3.10	871	59	7.05	54	64
Durables	9.74	76	1.22	384	23	55	0.99	277	19	2.24	72	81
Services	4.62	2,051	3.46	10,301	66	701	2.35	3,520	45	28.50	34	68

Reference Data

Exchange rate (Local Currency Units/Hong Kong dollar)	13.53
Total Population (in million)	199.11

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.

2017 International Comparison Program for Asia and the Pacific

Pakistan, 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	4.77	4,017	2.78	22,680	56	1,727	1.72	9,754	35	100.00	43	62
Actual Individual Consumption by Households ^a	4.39	3,705	4.66	20,922	94	1,466	2.89	8,279	58	84.88	40	62
Food and non-alcoholic beverages	5.55	1,295	7.22	7,311	145	648	5.50	3,658	111	37.50	50	76
Food	5.46	1,263	7.26	7,133	146	622	5.49	3,514	111	36.02	49	76
Bread and cereals	6.48	249	6.34	1,406	128	145	5.15	821	104	8.42	58	81
Meat and fish	5.56	117	2.84	659	57	59	2.04	330	41	3.39	50	72
Fruits and vegetables	3.58	263	5.63	1,484	113	85	3.28	479	66	4.91	32	58
Other food and non-alcoholic beverages	6.02	661	12.46	3,733	251	359	10.27	2,027	207	20.78	54	82
Clothing and footwear	6.33	119	3.64	674	73	68	2.37	385	48	3.94	57	65
Clothing	6.51	95	3.58	539	72	56	2.35	317	47	3.25	59	66
Housing, water, electricity, gas and other fuels	2.67	1,172	7.77	6,617	156	282	3.97	1,591	80	16.31	24	51
Health and education	2.13	847	3.97	4,783	80	163	1.68	919	34	9.42	19	42
Health	1.91	534	4.37	3,016	88	92	1.76	521	35	5.34	17	40
Education	2.46	319	3.27	1,799	66	71	1.59	398	32	4.08	22	49
Transportation and communication	6.08	216	2.56	1,219	52	118	1.95	668	39	6.85	55	76
Transportation	5.71	183	2.67	1,031	54	94	2.09	531	42	5.44	51	78
Recreation and culture	6.76	27	0.97	150	20	16	0.68	91	14	0.94	61	70
Restaurants and hotels	5.90	28	0.74	159	15	15	0.58	84	12	0.87	53	78
Other consumption expenditure items	5.19	334	2.93	1,888	59	156	1.88	883	38	9.05	47	64
Individual Consumption Expenditure by Government	3.42	171	1.41	966	28	53	0.78	298	16	3.05	31	55
Collective Consumption Expenditure by Government	3.93	345	3.40	1,948	68	122	1.86	690	37	7.08	35	55
Gross Fixed Capital Formation	6.41	389	0.78	2,199	16	225	0.58	1,270	12	13.02	58	75
Machinery and equipment	9.89	75	0.66	421	13	66	0.59	375	12	3.85	89	89
Construction	4.01	297	0.73	1,678	15	108	0.46	607	9	6.22	36	63
Change in Inventories and Net Acquisitions of Valuables	5.69	54	1.44	304	29	28	0.99	156	20	1.60	51	69
Balance of Exports and Imports	11.09	-114	-5.61	-642	-113	-114	-5.61	-642	-113	-6.58	100	100
Individual Consumption Expenditure by Households and NPISH	4.51	3,473	5.05	19,610	102	1,414	3.22	7,982	65	81.83	41	64
Government Final Consumption Expenditure	3.67	528	2.43	2,983	49	175	1.31	988	26	10.13	33	54
Actual Individual Consumption by Households ^a	4.39	3,705	4.66	20,922	94	1,466	2.89	8,279	58	84.88	40	62
All goods	5.58	2,063	5.78	11,650	116	1,037	3.83	5,856	77	60.04	50	66
Non-durables	4.89	2,056	7.11	11,610	143	906	4.74	5,115	95	52.44	44	67
Semi-durables	6.71	143	3.32	808	67	87	2.07	489	42	5.01	60	62
Durables	8.80	56	1.47	318	30	45	1.17	252	24	2.58	79	80
Services	3.60	1,142	3.72	6,450	75	370	2.21	2,091	45	21.44	32	59

Reference Data

Exchange rate (Local Currency Units/Hong Kong dollar)	11.09
Total Population (in million)	177.10

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.