

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

Taipei, China; 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	2.62	6,688	2.88	283,878	463	4,480	3.01	190,165	484	100.00	67	105
Actual Individual Consumption by Households ^a	2.58	4,097	3.05	173,917	490	2,707	3.43	114,917	552	60.43	66	112
Food and non-alcoholic beverages	3.20	417	1.52	17,712	244	342	2.17	14,504	349	7.63	82	143
Food	3.20	389	1.46	16,504	234	318	2.11	13,516	340	7.11	82	145
Bread and cereals	3.68	81	1.45	3,430	234	76	2.22	3,229	357	1.70	94	153
Meat and fish	3.08	126	1.81	5,349	291	100	2.39	4,224	385	2.22	79	132
Fruits and vegetables	3.42	109	1.50	4,616	242	95	2.68	4,038	430	2.12	87	178
Other food and non-alcoholic beverages	2.74	101	1.25	4,294	201	71	1.55	3,013	249	1.58	70	124
Clothing and footwear	2.59	155	3.11	6,594	500	103	2.77	4,366	444	2.30	66	89
Clothing	2.49	141	3.43	5,971	551	90	3.04	3,802	489	2.00	64	89
Housing, water, electricity, gas and other fuels	2.59	627	2.76	26,629	444	416	3.87	17,647	622	9.28	66	140
Health and education	1.58	1,172	2.83	49,759	454	474	2.79	20,129	448	10.58	40	99
Health	1.32	795	3.30	33,725	530	268	2.98	11,382	478	5.99	34	90
Education	1.94	415	2.25	17,606	362	206	2.58	8,747	415	4.60	50	114
Transportation and communication	2.49	567	3.26	24,070	524	362	3.60	15,345	579	8.07	64	110
Transportation	2.58	432	3.13	18,335	503	285	3.69	12,115	593	6.37	66	118
Recreation and culture	3.28	277	7.05	11,760	1,132	233	6.75	9,888	1,085	5.20	84	96
Restaurants and hotels	2.47	310	5.74	13,164	923	196	5.62	8,322	903	4.38	63	98
Other consumption expenditure items	2.85	797	3.89	33,822	625	582	3.88	24,717	624	13.00	73	100
Individual Consumption Expenditure by Government	1.89	693	3.64	29,420	584	336	2.97	14,244	477	7.49	48	82
Collective Consumption Expenditure by Government	2.25	512	3.38	21,714	543	295	3.01	12,503	484	6.57	58	89
Gross Fixed Capital Formation	2.93	1,225	1.63	51,992	263	918	1.67	38,947	268	20.48	75	102
Machinery and equipment	4.30	327	2.90	13,862	466	359	3.03	15,244	488	8.02	110	105
Construction	2.35	548	0.82	23,251	132	329	0.91	13,974	146	7.35	60	111
Change in Inventories and Net Acquisitions of Valuables	2.91	-14	-0.31	-600	-50	-11	-0.36	-447	-57	-0.24	75	114
Balance of Exports and Imports	3.91	571	24.37	24,246	3,916	571	24.37	24,246	3,916	12.75	100	100
Individual Consumption Expenditure by Households and NPISH	2.66	3,484	2.98	147,894	478	2,372	3.51	100,673	564	52.94	68	118
Government Final Consumption Expenditure	2.07	1,191	3.53	50,555	568	630	2.99	26,747	480	14.07	53	85
Actual Individual Consumption by Households ^a	2.58	4,097	3.05	173,917	490	2,707	3.43	114,917	552	60.43	66	112
All goods	2.94	1,497	2.72	63,539	436	1,126	2.98	47,772	479	25.12	75	110
Non-durables	2.71	915	2.04	38,848	327	635	2.39	26,959	384	14.18	69	117
Semi-durables	2.71	309	4.73	13,103	760	214	3.83	9,100	615	4.79	69	81
Durables	3.73	289	4.62	12,261	743	276	4.95	11,713	795	6.16	96	107
Services	2.52	1,890	3.19	80,239	512	1,217	4.09	51,662	657	27.17	64	128
Reference Data												
Exchange rate (Local Currency Units/Hong Kong dollar)												
Total Population (in million)												

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

Taipei,China; 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	2.90	4,943	3.42	213,157	526	3,780	3.76	163,021	578	100.00	76	110
Actual Individual Consumption by Households ^a	2.83	3,139	3.94	135,339	606	2,348	4.64	101,271	712	62.12	75	117
Food and non-alcoholic beverages	3.23	316	1.76	13,639	271	270	2.29	11,636	352	7.14	85	130
Food	3.23	295	1.70	12,735	261	252	2.22	10,871	342	6.67	85	131
Bread and cereals	3.83	57	1.46	2,471	224	58	2.05	2,499	315	1.53	101	141
Meat and fish	3.23	93	2.27	4,026	350	80	2.78	3,439	427	2.11	85	122
Fruits and vegetables	2.83	102	2.19	4,411	337	77	2.96	3,302	455	2.03	75	135
Other food and non-alcoholic beverages	3.09	68	1.28	2,937	197	56	1.59	2,396	244	1.47	82	124
Clothing and footwear	3.17	110	3.35	4,732	515	92	3.19	3,964	491	2.43	84	95
Clothing	3.27	93	3.47	3,993	533	80	3.35	3,445	515	2.11	86	97
Housing, water, electricity, gas and other fuels	2.89	498	3.30	21,456	507	380	5.35	16,380	823	10.05	76	162
Health and education	2.03	803	3.76	34,645	578	431	4.45	18,587	685	11.40	54	118
Health	1.65	509	4.16	21,943	640	222	4.22	9,554	649	5.86	44	101
Education	2.43	326	3.35	14,052	515	209	4.73	9,033	727	5.54	64	141
Transportation and communication	2.78	451	5.35	19,451	822	332	5.45	14,306	838	8.78	74	102
Transportation	2.71	349	5.10	15,051	784	250	5.56	10,771	854	6.61	72	109
Recreation and culture	3.68	206	7.54	8,890	1,159	200	8.37	8,643	1,286	5.30	97	111
Restaurants and hotels	2.43	230	6.06	9,922	932	148	5.73	6,378	881	3.91	64	94
Other consumption expenditure items	2.97	633	5.54	27,284	851	496	5.94	21,378	914	13.11	78	107
Individual Consumption Expenditure by Government	2.40	455	3.76	19,635	579	288	4.25	12,438	653	7.63	63	113
Collective Consumption Expenditure by Government	2.59	416	4.10	17,920	630	284	4.32	12,251	664	7.52	68	105
Gross Fixed Capital Formation	2.99	1,120	2.24	48,307	345	884	2.29	38,123	353	23.39	79	102
Machinery and equipment	3.45	400	3.56	17,244	547	364	3.25	15,714	499	9.64	91	91
Construction	2.63	489	1.20	21,107	185	340	1.45	14,659	222	8.99	69	120
Change in Inventories and Net Acquisitions of Valuables	3.03	12	0.32	511	49	9	0.34	409	52	0.25	80	107
Balance of Exports and Imports	3.79	254	12.55	10,966	1,929	254	12.55	10,966	1,929	6.73	100	100
Individual Consumption Expenditure by Households and NPISH	2.86	2,729	3.96	117,693	609	2,060	4.69	88,833	722	54.49	75	118
Government Final Consumption Expenditure	2.51	865	3.98	37,301	612	573	4.29	24,690	659	15.15	66	108
Actual Individual Consumption by Households ^a	2.83	3,139	3.94	135,339	606	2,348	4.64	101,271	712	62.12	75	117
All goods	3.07	1,236	3.46	53,311	533	1,001	3.70	43,166	568	26.48	81	107
Non-durables	2.97	715	2.47	30,814	380	560	2.93	24,150	451	14.81	78	119
Semi-durables	3.23	230	5.33	9,915	819	196	4.69	8,453	721	5.19	85	88
Durables	3.24	287	7.47	12,359	1,149	245	6.42	10,562	987	6.48	85	86
Services	2.77	1,413	4.61	60,930	708	1,032	6.17	44,522	948	27.31	73	134

Reference Data

Exchange rate (Local Currency Units/Hong Kong dollar)	3.79
Total Population (in million)	23.19

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.