

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 (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 results of an indicator for the 22 participating economies of Asia and the Pacific. These include 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 2011 revised results 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

Price Level Indexes, 2017

(Hong Kong, China = 100)

Expenditure Category	BAN	BHU	BRU	CAM	FIJ	HKG	IND	INO	LAO	MAL	MLD	MON	MYA	NEP	PAK	PHI	PRC	SIN	SRI	TAP	THA	VIE
Gross Domestic Product	48	38	61	46	59	100	41	45	43	50	69	42	35	39	41	50	80	83	42	67	49	43
Actual Individual Consumption by Households ^a	44	36	61	44	58	100	38	45	43	49	75	40	34	35	39	47	77	96	40	66	47	41
Food and non-alcoholic beverages	53	47	69	53	64	100	39	60	56	51	62	47	44	43	47	52	77	83	57	82	53	49
Food	52	46	68	52	62	100	39	59	54	51	60	46	44	42	46	52	77	84	56	82	52	48
Bread and cereals	60	54	69	53	68	100	42	70	59	54	64	57	51	45	49	62	92	92	55	94	58	53
Meat and fish	54	43	62	55	64	100	44	51	54	49	39	35	42	50	43	43	70	91	51	79	47	47
Fruits and vegetables	38	47	91	52	58	100	32	65	51	54	102	74	40	33	41	57	67	84	55	87	56	47
Other food and non-alcoholic beverages	56	45	65	52	67	100	43	58	57	48	64	50	45	45	50	50	84	69	61	70	52	50
Clothing and footwear	56	46	113	55	75	100	37	62	48	60	71	59	45	43	52	75	148	97	45	66	49	49
Clothing	54	41	104	56	70	100	36	64	47	56	67	54	43	42	51	67	146	91	44	64	46	47
Housing, water, electricity, gas and other fuels	32	24	35	42	34	100	31	26	34	34	109	40	20	27	29	37	64	109	29	66	32	42
Health and education	26	15	42	18	40	100	20	24	12	38	41	16	15	14	20	28	54	86	11	40	28	19
Health	24	14	50	22	36	100	18	25	16	37	36	18	16	16	23	34	45	99	14	34	31	23
Education	27	17	35	15	42	100	23	24	10	37	45	15	14	13	18	25	67	75	8	50	25	16
Transportation and communication	49	52	91	59	57	100	45	54	66	57	100	52	51	51	45	59	64	121	56	64	58	53
Transportation	50	49	79	61	60	100	47	53	66	52	92	48	48	63	48	55	60	123	58	66	57	57
Recreation and culture	61	62	107	68	77	100	55	75	69	73	116	64	54	40	59	63	99	85	70	84	75	58
Restaurants and hotels	46	38	57	47	71	100	48	46	66	44	57	52	42	34	47	55	85	79	56	63	46	40
Other consumption expenditure items	53	43	58	44	77	100	51	52	49	60	74	45	37	49	45	51	94	111	50	73	58	43
Individual Consumption Expenditure by Government	34	18	40	27	43	100	44	29	16	39	45	15	18	27	35	42	70	85	13	48	32	21
Collective Consumption Expenditure by Government	45	21	39	45	52	100	54	35	26	44	52	24	28	45	42	46	83	70	20	58	44	29
Gross Fixed Capital Formation	59	54	68	53	62	100	46	48	53	52	64	53	41	53	52	59	86	82	55	75	54	52
Machinery and equipment	121	114	115	100	100	100	80	96	102	90	109	93	78	86	92	100	116	118	97	110	96	93
Construction	35	31	45	32	44	100	30	29	31	34	42	34	24	36	33	40	65	68	35	60	34	34
Change in Inventories and Net Acquisitions of Valuables	56	47	69	55	69	100	47	54	54	55	73	50	42	48	46	58	88	93	58	75	57	51
Balance of Exports and Imports	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Individual Consumption Expenditure by Households and NPISH	46	39	63	46	60	100	37	47	47	50	79	45	36	36	39	48	77	98	45	68	49	44
Government Final Consumption Expenditure	40	19	39	35	48	100	50	32	22	42	49	20	24	38	39	45	77	75	17	53	38	26
Actual Individual Consumption by Households ^a	44	36	61	44	58	100	38	45	43	49	75	40	34	35	39	47	77	96	40	66	47	41
All goods	58	49	70	60	79	100	47	61	59	61	85	53	46	49	47	63	89	108	63	75	63	55
Non-durables	51	42	55	53	71	100	42	55	52	55	73	47	41	43	41	56	78	99	55	69	57	48
Semi-durables	60	53	99	60	80	100	45	60	55	61	81	62	47	43	54	74	145	95	60	69	63	55
Durables	91	76	126	92	104	100	69	87	88	78	158	72	77	91	72	82	92	157	93	96	88	84
Services	35	33	62	34	42	100	30	37	38	43	79	41	27	25	34	35	69	90	33	64	37	36

Reference Data

Exchange rate (Local Currency Units/Hong Kong dollar)	10.32	8.36	0.18	519.75	0.27	1.00	8.36	1,716.98	1,071.64	0.55	1.97	313.06	174.56	13.41	13.53	6.47	0.87	0.18	19.56	3.91	4.36	2,870.44
Total Population (in million)	161.80	0.73	0.43	15.85	0.88	7.39	1,309.20	261.89	6.90	32.02	0.49	3.15	53.15	28.83	199.11	104.92	1,386.40	5.61	21.44	23.56	67.65	94.24

BAN = Bangladesh; BHU = Bhutan; BRU = Brunei Darussalam; CAM = Cambodia; FIJ = Fiji; HKG = Hong Kong, China; IND = India; INO = Indonesia; LAO = Lao People's Democratic Republic; MAL = Malaysia; MLD = Maldives; MON = Mongolia; MYA = Myanmar; NEP = Nepal; NPISH=nonprofit institutions serving households; PAK = Pakistan; PHI = Philippines; PRC = People's Republic of China; SIN = Singapore; SRI = Sri Lanka; TAP = Taipei,China; THA = Thailand; VIE = Viet Nam.

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

Sources: Asian Development Bank estimates. For exchange rates: 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 economies for the International Comparison Program.

2017 International Comparison Program for Asia and the Pacific

Price Level Indexes, 2011 (Revised) (Hong Kong, China = 100)

Expenditure Category	BAN	BHU	BRU	CAM	FIJ	HKG	IND	INO	LAO	MAC	MAL	MLD	MON	MYA	NEP	PAK	PHI	PRC	SIN	SRI	TAP	THA	VIE
Gross Domestic Product	47	52	83	50	79	100	50	60	49	82	71	80	63	48	51	43	62	81	100	53	76	60	50
Actual Individual Consumption by Households ^a	44	48	89	48	77	100	44	58	49	88	70	80	57	44	47	40	59	79	118	49	75	56	47
Food and non-alcoholic beverages	55	54	89	60	83	100	47	74	68	100	77	81	73	59	54	50	67	83	113	67	85	68	60
Food	54	53	89	59	82	100	46	74	67	100	76	80	73	58	53	49	68	83	116	66	85	67	60
Bread and cereals	61	60	80	60	88	100	50	81	79	110	86	104	83	69	58	58	76	95	127	71	101	81	64
Meat and fish	60	49	91	62	89	100	49	67	64	98	69	56	57	53	57	50	58	79	122	60	85	59	64
Fruits and vegetables	34	46	104	53	68	100	39	68	53	97	80	115	116	46	41	32	74	71	108	59	75	64	49
Other food and non-alcoholic beverages	60	60	85	64	92	100	50	80	77	97	77	78	76	68	58	54	66	89	100	73	82	72	61
Clothing and footwear	64	59	145	54	98	100	46	103	55	129	109	89	102	53	53	57	96	124	133	59	84	68	55
Clothing	67	59	143	55	97	100	45	105	56	133	109	95	102	54	55	59	99	129	129	59	86	70	57
Housing, water, electricity, gas and other fuels	30	42	73	44	42	100	36	30	36	73	47	111	56	31	33	24	44	59	131	30	76	32	48
Health and education	23	28	64	19	58	100	23	34	14	67	48	49	20	14	22	19	38	60	108	21	54	36	18
Health	24	29	64	22	60	100	19	45	23	76	50	42	20	19	21	17	47	52	109	24	44	37	18
Education	23	27	60	17	55	100	27	27	9	59	46	55	20	10	22	22	32	69	104	18	64	35	17
Transportation and communication	57	53	87	67	108	100	61	75	69	91	89	78	71	75	87	55	78	76	143	67	74	72	85
Transportation	63	51	62	60	87	100	59	65	70	86	71	82	58	69	86	51	61	69	127	63	72	65	77
Recreation and culture	78	76	138	73	117	100	76	78	87	109	93	116	95	64	72	61	87	88	101	76	97	85	64
Restaurants and hotels	47	45	112	48	98	100	61	64	59	96	62	63	74	41	49	53	59	73	98	77	64	48	48
Other consumption expenditure items	42	55	116	46	88	100	53	66	52	97	80	68	59	53	53	47	58	90	138	50	78	67	43
Individual Consumption Expenditure by Government	29	29	61	23	66	100	39	32	14	76	51	53	21	21	36	31	52	63	102	19	63	42	23
Collective Consumption Expenditure by Government	39	30	54	39	72	100	49	46	26	91	60	57	39	34	57	35	69	81	92	30	68	59	33
Gross Fixed Capital Formation	54	69	96	57	77	100	60	62	55	89	76	88	77	57	64	58	66	84	90	69	79	65	59
Machinery and equipment	88	105	101	95	99	100	89	92	91	88	96	99	105	95	92	89	97	104	96	103	91	95	89
Construction	36	45	84	35	62	100	40	42	33	78	59	73	57	32	44	36	45	65	83	46	69	43	40
Change in Inventories and Net Acquisitions of Valuables	56	62	99	62	84	100	59	69	60	97	79	89	76	58	59	51	70	88	111	68	80	69	59
Balance of Exports and Imports	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Individual Consumption Expenditure by Households and NPISH	46	50	91	51	78	100	45	61	54	89	71	83	63	47	48	41	60	79	120	54	75	58	51
Government Final Consumption Expenditure	35	30	55	30	69	100	44	40	22	84	56	55	30	29	48	33	61	73	94	25	66	51	28
Actual Individual Consumption by Households ^a	44	48	89	48	77	100	44	58	49	88	70	80	57	44	47	40	59	79	118	49	75	56	47
All goods	59	58	96	65	93	100	52	79	68	103	84	87	74	62	60	50	76	94	134	68	81	73	62
Non-durables	50	52	87	60	83	100	46	71	63	97	74	76	68	56	52	44	70	85	128	61	78	67	53
Semi-durables	70	65	136	60	104	100	55	94	59	124	106	100	102	56	60	60	94	129	129	68	85	77	62
Durables	113	76	100	85	131	100	82	105	89	110	114	132	73	97	127	79	84	102	162	109	85	92	107
Services	33	46	100	38	66	100	40	45	41	80	62	84	57	31	36	32	45	67	109	42	73	44	43

Reference Data

Exchange rate (Local Currency Units/Hong Kong dollar)	9.53	6.00	0.16	521.39	0.23	1.00	6.00	1,126.73	1,031.61	1.03	0.39	1.88	162.58	105.08	9.51	11.09	5.56	0.83	0.16	14.20	3.79	3.92	2,634.86
Total Population (in million)	149.70	0.68	0.39	14.31	0.85	7.07	1,216.15	241.99	6.12	0.55	29.06	0.41	2.79	49.66	26.49	177.10	94.18	1,344.13	5.18	20.20	23.19	66.21	88.11

BAN = Bangladesh; BHU = Bhutan; BRU = Brunei Darussalam; CAM = Cambodia; FIJ = Fiji; HKG = Hong Kong, China; IND = India; INO = Indonesia; LAO = Lao People's Democratic Republic; MAC = Macau, China; MAL = Malaysia; MLD = Maldives; MON = Mongolia; MYA = Myanmar; NEP = Nepal; NPISH=nonprofit institutions serving households; PAK = Pakistan; PHI = Philippines; PRC = People's Republic of China; SIN = Singapore; SRI = Sri Lanka; TAP = Taipei,China; THA = Thailand; VIE = Viet Nam.

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

Source: Asian Development Bank estimates. For exchange rates: 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 economies for the International Comparison Program.