

### 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 (Asia and the Pacific = 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	75	60	95	71	92	156	64	71	68	78	107	66	55	60	64	78	125	130	66	105	77	67
Actual Individual Consumption by Households <sup>a</sup>	76	62	103	75	98	170	64	77	73	83	128	68	58	60	66	80	132	164	69	112	80	70
Food and non-alcoholic beverages	92	82	121	92	111	175	69	105	97	89	108	83	78	75	82	90	135	144	99	143	93	85
Food	92	81	121	92	110	177	69	105	96	90	107	81	78	75	82	92	136	149	99	145	93	86
Bread and cereals	97	87	112	86	110	162	68	114	95	87	103	92	83	73	79	101	148	149	89	153	94	85
Meat and fish	90	72	104	93	107	167	73	86	90	82	64	58	71	84	72	72	117	152	86	132	79	79
Fruits and vegetables	77	95	185	105	117	204	65	132	104	111	208	151	82	66	83	115	137	172	112	178	113	95
Other food and non-alcoholic beverages	98	80	115	92	119	177	75	103	101	85	113	89	79	79	88	89	148	122	108	124	92	89
Clothing and footwear	75	62	152	74	101	134	50	84	65	80	95	79	60	57	70	101	199	131	61	89	66	65
Clothing	75	58	145	78	98	139	51	89	65	78	93	76	60	58	71	93	203	126	61	89	65	65
Housing, water, electricity, gas and other fuels	68	51	74	89	71	211	65	56	71	73	230	84	42	56	61	79	135	231	62	140	68	89
Health and education	63	38	102	44	98	244	49	59	30	92	99	40	36	35	50	69	133	209	26	99	68	46
Health	64	36	133	60	95	267	48	66	43	100	95	48	43	43	61	91	119	264	38	90	84	61
Education	63	39	80	34	96	230	53	54	23	86	104	34	32	30	41	56	154	172	19	114	57	37
Transportation and communication	85	90	157	102	98	173	78	94	114	99	173	90	89	89	78	101	111	209	97	110	101	93
Transportation	89	87	141	108	107	178	84	94	118	92	164	86	85	111	85	98	108	219	103	118	101	101
Recreation and culture	70	70	122	78	88	114	62	85	79	83	133	73	61	46	67	72	113	97	79	96	86	66
Restaurants and hotels	71	59	89	72	110	155	74	71	102	69	88	81	64	52	73	85	131	123	86	98	71	61
Other consumption expenditure items	72	59	79	60	105	137	70	71	66	82	101	61	51	67	62	69	129	151	69	100	80	59
Individual Consumption Expenditure by Government	57	30	67	45	72	168	75	48	27	66	76	25	31	45	59	71	117	143	22	82	54	36
Collective Consumption Expenditure by Government	69	32	61	70	80	155	84	54	40	68	81	37	44	69	66	72	129	109	32	89	68	45
Gross Fixed Capital Formation	81	74	93	72	84	136	63	66	72	71	87	73	56	73	71	81	117	112	75	102	73	71
Machinery and equipment	115	108	110	95	95	95	76	91	97	85	104	89	74	82	87	95	110	112	92	105	91	88
Construction	64	57	84	58	81	185	56	54	57	63	77	63	45	67	62	74	121	125	64	111	62	62
Change in Inventories and Net Acquisitions of Valuables	85	72	106	84	106	153	72	82	82	83	111	77	64	73	70	89	134	142	88	114	87	78
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	79	68	109	80	103	173	65	82	81	87	138	77	62	63	68	83	133	169	79	118	85	76
Government Final Consumption Expenditure	64	31	62	57	76	160	79	51	35	67	78	31	39	60	62	71	123	119	27	85	61	41
Actual Individual Consumption by Households <sup>a</sup>	76	62	103	75	98	170	64	77	73	83	128	68	58	60	66	80	132	164	69	112	80	70
All goods	85	71	102	87	115	146	68	89	86	89	125	77	67	71	69	92	130	158	91	110	92	80
Non-durables	87	71	93	90	120	169	71	92	88	93	123	79	69	72	70	95	133	168	94	117	96	81
Semi-durables	70	62	116	70	94	117	52	70	64	71	95	73	55	50	64	86	169	111	70	81	74	64
Durables	102	85	141	103	116	112	78	97	99	87	177	81	86	102	81	92	103	175	104	107	99	94
Services	71	66	124	67	85	199	59	73	76	86	157	81	54	49	68	70	137	179	65	128	75	73

#### 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.

<sup>a</sup> 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)

(Asia and the Pacific = 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	67	75	120	72	113	144	71	86	71	118	102	115	90	68	73	62	89	116	144	76	110	87	72
Actual Individual Consumption by Households <sup>a</sup>	70	76	140	75	121	157	70	91	77	139	110	126	90	70	73	62	92	123	186	77	117	89	75
Food and non-alcoholic beverages	83	83	135	91	126	152	71	113	104	152	117	123	112	89	82	76	101	126	172	102	130	103	91
Food	83	82	136	91	125	154	71	113	103	154	118	123	111	88	81	76	104	127	178	101	131	103	92
Bread and cereals	85	83	111	84	122	139	70	113	110	152	120	145	115	97	80	81	105	132	176	98	141	112	89
Meat and fish	86	69	130	88	127	143	70	96	92	139	99	80	81	76	82	72	83	113	175	86	122	84	91
Fruits and vegetables	62	84	188	95	122	180	71	122	95	175	144	207	209	82	73	58	133	128	195	107	135	114	89
Other food and non-alcoholic beverages	91	91	130	97	139	152	76	122	116	147	116	119	115	103	88	82	101	135	153	111	124	109	92
Clothing and footwear	73	67	165	61	112	114	53	117	62	147	124	102	117	60	61	65	109	141	151	68	95	78	63
Clothing	75	66	161	62	108	112	51	118	62	149	122	107	114	61	61	66	111	144	145	67	97	79	64
Housing, water, electricity, gas and other fuels	64	89	156	93	90	212	77	63	77	155	99	235	119	66	71	51	93	126	278	64	162	69	103
Health and education	51	62	140	43	128	221	50	75	31	149	107	108	45	30	48	42	83	133	238	46	118	80	39
Health	56	68	150	50	140	233	44	104	54	178	117	98	47	43	49	40	110	122	254	55	101	87	43
Education	50	58	131	38	120	220	59	59	20	130	102	120	43	22	49	49	70	151	229	40	141	78	37
Transportation and communication	79	74	121	92	150	139	84	104	96	127	123	108	98	105	121	76	108	105	198	93	102	100	118
Transportation	96	78	95	92	133	152	89	99	106	131	108	124	88	105	132	78	93	104	194	96	109	99	117
Recreation and culture	89	86	157	83	133	114	87	89	99	125	106	133	109	73	82	70	99	101	115	87	111	97	73
Restaurants and hotels	70	65	165	71	145	147	90	94	87	140	91	93	108	60	72	78	86	108	145	113	94	71	70
Other consumption expenditure items	57	75	159	63	120	137	73	90	71	133	110	93	81	72	72	64	79	124	188	69	107	92	59
Individual Consumption Expenditure by Government	52	52	108	40	117	178	69	57	26	135	91	94	38	37	65	55	93	113	181	34	113	75	40
Collective Consumption Expenditure by Government	61	47	84	60	110	154	75	71	41	140	93	88	59	53	87	55	106	126	141	47	105	91	51
Gross Fixed Capital Formation	71	89	124	74	100	130	77	80	71	116	98	114	100	73	83	75	86	109	117	90	102	85	77
Machinery and equipment	88	105	101	95	99	100	89	92	91	88	96	99	105	95	92	89	98	104	96	103	91	96	89
Construction	62	79	146	61	107	173	69	73	57	134	102	126	99	56	76	63	77	113	144	79	120	75	70
Change in Inventories and Net Acquisitions of Valuables	76	83	133	84	113	134	79	93	81	130	105	119	102	78	80	69	94	119	149	91	107	92	80
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	72	79	143	80	123	157	71	96	84	139	112	130	99	74	75	64	94	124	188	84	118	90	79
Government Final Consumption Expenditure	57	49	90	49	112	163	72	64	35	137	92	89	48	48	77	54	100	119	154	40	108	84	46
Actual Individual Consumption by Households <sup>a</sup>	70	76	140	75	121	157	70	91	77	139	110	126	90	70	73	62	92	123	186	77	117	89	75
All goods	78	76	126	85	122	132	69	105	89	135	111	115	97	82	80	66	101	124	176	90	107	97	81
Non-durables	76	79	132	90	126	151	70	107	95	147	112	116	102	85	78	67	106	128	194	92	119	102	81
Semi-durables	72	67	141	62	107	103	56	97	61	128	109	103	105	58	62	62	98	133	134	70	88	80	64
Durables	114	76	100	85	131	101	83	106	89	111	115	133	73	97	127	80	85	103	163	109	86	93	108
Services	61	85	184	70	120	183	73	83	75	147	113	154	104	57	66	59	82	123	200	77	134	80	79

#### 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.

<sup>a</sup> 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.