

### 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

### Per Capita Real Expenditure Index, 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	AP
Gross Domestic Product	43	115	590	39	132	587	60	108	72	250	183	110	43	28	49	76	139	921	123	463	174	70	100
Actual Individual Consumption by Households <sup>a</sup>	57	122	274	60	169	720	71	114	71	270	135	117	46	42	78	110	117	543	146	490	175	82	100
Food and non-alcoholic beverages	120	157	151	107	227	358	88	123	113	261	119	136	91	99	101	192	86	188	139	244	179	96	100
Food	124	152	142	107	224	346	91	114	99	261	108	130	92	103	100	180	86	170	142	234	163	96	100
Bread and cereals	232	173	151	161	205	172	92	122	122	166	89	82	84	164	112	274	61	131	219	234	151	126	100
Meat and fish	89	74	214	119	176	675	29	151	160	324	192	232	120	55	43	281	133	216	82	291	167	157	100
Fruits and vegetables	86	146	71	60	268	186	119	65	61	209	58	21	92	98	65	71	91	133	80	242	208	53	100
Other food and non-alcoholic beverages	88	215	172	93	239	351	108	149	107	315	147	205	70	94	167	160	60	256	179	201	175	55	100
Clothing and footwear	73	194	128	24	153	927	129	74	35	169	114	117	36	28	121	20	76	388	131	500	72	92	100
Clothing	82	190	140	15	166	742	129	76	35	187	108	119	39	29	123	18	73	426	149	551	89	98	100
Housing, water, electricity, gas and other fuels	77	128	322	57	119	665	69	98	64	320	135	95	64	41	123	91	115	421	126	444	132	104	100
Health and education	29	128	334	64	112	344	58	88	67	154	171	150	36	29	64	68	148	353	152	454	182	105	100
Health	21	143	125	45	60	335	50	52	34	108	181	89	31	21	58	32	173	278	109	530	133	73	100
Education	38	113	673	85	176	336	64	134	114	209	161	234	40	37	65	120	120	433	208	362	239	144	100
Transportation and communication	18	106	244	26	181	501	78	126	28	352	95	90	13	10	37	90	123	567	175	524	152	64	100
Transportation	21	116	274	31	148	466	84	128	27	309	67	90	12	7	32	98	117	549	202	503	169	72	100
Recreation and culture	22	70	334	35	73	2,528	15	103	26	382	113	94	12	42	71	47	151	2,204	341	1,132	181	87	100
Restaurants and hotels	31	62	335	66	41	1,581	26	257	120	711	312	54	45	20	43	90	106	1,523	98	923	389	93	100
Other consumption expenditure items	29	81	180	33	231	1,253	70	103	90	256	124	112	19	18	56	123	122	689	133	625	183	69	100
Individual Consumption Expenditure by Government	10	161	689	38	119	273	23	73	58	234	234	202	26	10	31	60	184	399	204	584	259	85	100
Collective Consumption Expenditure by Government	34	359	2,830	22	269	540	52	121	228	266	312	216	131	35	51	73	131	1,146	169	543	241	104	100
Gross Fixed Capital Formation	33	130	667	11	69	394	47	102	61	187	255	66	35	20	18	50	173	765	77	263	112	43	100
Machinery and equipment	32	121	882	18	178	735	55	56	59	213	368	86	52	18	23	72	157	1,047	149	466	243	37	100
Construction	45	169	676	11	33	276	42	142	52	185	261	50	33	20	13	40	177	403	60	132	68	53	100
Change in Inventories and Net Acquisitions of Valuables	3	-3	-534	9	65	125	132	20	0	38	116	317	25	165	36	4	117	841	479	-50	-25	85	100
Balance of Exports and Imports	-144	-895	4,966	-2	-276	632	-71	50	-81	859	209	108	-115	-369	-203	-371	191	19,132	-369	3,916	1,172	84	100
Individual Consumption Expenditure by Households and NPISH	62	118	231	62	174	781	77	118	71	273	125	109	48	46	83	115	109	558	140	478	166	81	100
Government Final Consumption Expenditure	22	258	1,680	29	192	397	37	96	144	250	272	207	79	23	41	66	159	744	182	568	247	94	100
Actual Individual Consumption by Households <sup>a</sup>	57	122	274	60	169	720	71	114	71	270	135	117	46	42	78	110	117	543	146	490	175	82	100
All goods	80	148	216	71	199	595	74	120	92	280	123	120	61	57	95	123	108	332	117	436	161	101	100
Non-durables	96	152	204	86	210	367	80	120	105	290	130	133	79	72	111	154	97	198	114	327	168	103	100
Semi-durables	62	175	234	26	122	1,259	92	127	46	222	122	111	28	28	93	39	93	566	279	760	123	82	100
Durables	21	107	227	32	200	1,298	33	111	63	271	88	60	8	14	23	46	167	758	16	743	149	104	100
Services	33	74	184	40	121	917	85	109	53	290	125	86	27	27	66	104	109	816	193	512	166	69	100

#### 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

0 = magnitude is less than half of unit employed; AP = Asia and the Pacific; 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

### Per Capita Real Expenditure Index, 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	AP
Gross Domestic Product	36	98	1,085	34	117	675	58	119	57	1,550	276	164	114	44	28	56	74	133	1,034	117	526	178	59	100
Actual Individual Consumption by Households <sup>a</sup>	53	96	316	55	161	817	70	130	64	625	279	111	130	52	44	94	109	107	635	172	606	214	72	100
Food and non-alcoholic beverages	96	110	177	87	230	387	85	138	77	178	215	107	129	100	95	145	174	85	187	164	271	199	76	100
Food	99	109	163	87	225	382	87	131	70	175	213	97	124	103	98	146	163	85	168	168	261	182	76	100
Bread and cereals	174	120	181	121	194	155	87	158	69	119	119	87	55	103	165	128	237	72	119	240	224	149	93	100
Meat and fish	73	61	242	109	207	910	28	164	136	338	337	175	230	145	64	57	279	126	258	101	350	219	125	100
Fruits and vegetables	80	125	93	55	294	178	103	83	51	148	156	47	34	116	82	113	64	95	125	77	337	246	50	100
Other food and non-alcoholic beverages	68	123	195	70	217	330	110	144	59	127	251	130	200	58	77	251	139	57	239	216	197	183	43	100
Clothing and footwear	53	139	149	22	138	922	97	68	29	574	116	59	81	37	23	73	22	114	363	176	515	134	69	100
Clothing	56	115	153	14	142	765	98	72	28	525	124	54	89	38	23	72	18	112	366	203	533	152	70	100
Housing, water, electricity, gas and other fuels	71	102	227	47	144	703	70	121	51	560	328	117	104	58	36	156	93	104	481	135	507	160	84	100
Health and education	34	126	454	70	114	433	60	105	53	420	229	117	198	45	33	80	62	130	417	138	578	215	117	100
Health	23	118	204	56	56	405	50	52	27	321	147	109	107	34	26	88	25	157	330	116	640	173	93	100
Education	46	130	789	84	187	442	65	184	91	526	326	125	313	56	39	66	113	101	512	158	515	257	142	100
Transportation and communication	18	97	511	29	135	698	80	165	56	588	395	139	204	14	9	52	103	97	821	215	822	253	42	100
Transportation	18	99	686	38	139	665	88	173	57	583	396	59	260	13	8	54	125	83	821	267	784	299	53	100
Recreation and culture	6	109	370	29	67	2,682	13	124	19	1,358	385	49	65	12	33	20	38	151	2,825	319	1,159	182	68	100
Restaurants and hotels	23	25	238	55	34	1,663	24	207	116	2,065	587	64	34	52	17	15	81	123	1,474	76	932	409	68	100
Other consumption expenditure items	36	38	159	33	212	1,373	75	113	85	496	333	122	98	20	29	59	140	102	806	200	851	227	71	100
Individual Consumption Expenditure by Government	10	166	774	43	99	271	29	90	39	559	301	130	222	11	15	28	43	174	405	158	579	239	70	100
Collective Consumption Expenditure by Government	22	292	3,410	23	185	514	67	125	107	866	314	557	177	95	22	68	53	118	948	133	630	223	76	100
Gross Fixed Capital Formation	25	147	835	10	63	459	46	104	47	516	166	145	130	33	14	16	37	169	837	68	345	126	43	100
Machinery and equipment	15	164	1,172	11	137	896	42	58	19	455	213	191	236	41	9	13	36	169	1,123	114	547	245	33	100
Construction	35	159	696	10	30	265	49	136	48	553	127	143	72	29	14	15	34	169	577	53	185	73	53	100
Change in Inventories and Net Acquisitions of Valuables	9	-9	-522	6	113	158	105	69	24	687	107	29	356	1	152	29	44	127	515	252	49	60	97	100
Balance of Exports and Imports	-93	-1,074	25,456	-1	-358	1,853	-114	125	-65	52,771	2,186	1,079	-1,120	-55	-242	-113	-118	198	20,315	-584	1,929	156	-87	100
Individual Consumption Expenditure by Households and NPISH	58	89	266	57	169	897	75	135	67	635	277	109	123	56	47	102	118	99	664	173	609	212	72	100
Government Final Consumption Expenditure	16	230	2,034	32	142	391	48	108	75	714	308	340	197	56	19	49	48	146	672	144	612	230	73	100
Actual Individual Consumption by Households <sup>a</sup>	53	96	316	55	161	817	70	130	64	625	279	111	130	52	44	94	109	107	635	172	606	214	72	100
All goods	66	105	239	61	186	661	73	127	73	339	262	104	120	64	55	116	119	103	375	144	533	200	80	100
Non-durables	83	110	196	72	208	403	81	124	76	223	278	118	129	82	71	143	146	92	229	153	380	200	85	100
Semi-durables	44	116	251	24	109	1,266	73	108	42	580	161	63	79	28	22	67	37	118	583	235	819	178	63	100
Durables	15	65	455	34	134	1,688	30	154	79	728	268	74	97	8	13	30	49	146	996	29	1,149	216	67	100
Services	38	65	217	40	127	1,152	80	141	58	836	354	116	119	40	31	75	117	92	1,097	229	708	225	70	100

#### 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

AP = Asia and the Pacific; 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.