

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 Nominal Expenditure, 2017 (Hong Kong dollars)

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	12,654	27,094	220,065	10,904	47,572	360,247	15,194	30,217	19,026	76,589	77,137	28,278	9,268	6,754	12,349	23,295	68,262	469,907	31,748	190,165	52,444	18,506	39,326
Actual Individual Consumption by Households ^a	9,004	15,752	58,920	9,276	34,687	255,310	9,458	18,371	10,808	47,013	36,053	16,664	5,517	5,319	10,704	18,383	32,220	185,763	21,011	114,917	29,226	11,845	20,835
Food and non-alcoholic beverages	4,582	5,337	7,582	4,095	10,485	25,959	2,508	5,346	4,540	9,654	5,343	4,672	2,934	3,109	3,438	7,201	4,801	11,264	5,718	14,504	6,896	3,397	4,150
Food	4,563	4,904	6,813	3,923	9,842	24,354	2,470	4,770	3,793	9,294	4,569	4,223	2,855	3,064	3,271	6,603	4,654	10,024	5,617	13,516	5,997	3,267	3,979
Bread and cereals	2,036	1,366	1,531	1,256	2,034	2,525	565	1,261	1,049	1,315	837	685	633	1,089	801	2,496	825	1,764	1,768	3,229	1,282	974	905
Meat and fish	877	585	2,441	1,212	2,077	12,392	235	1,426	1,588	2,925	1,361	1,483	932	508	344	2,218	1,719	3,599	769	4,224	1,455	1,354	1,098
Fruits and vegetables	618	1,308	1,227	589	2,947	3,557	720	809	601	2,174	1,141	293	702	610	510	767	1,174	2,147	840	4,038	2,209	476	939
Other food and non-alcoholic beverages	1,051	2,077	2,383	1,038	3,428	7,484	987	1,850	1,303	3,240	2,005	2,211	668	901	1,783	1,719	1,083	3,754	2,341	3,013	1,950	593	1,208
Clothing and footwear	538	1,187	1,908	173	1,521	12,229	640	607	223	1,329	1,068	900	213	156	840	195	1,481	4,975	780	4,366	465	590	982
Clothing	479	853	1,583	89	1,262	8,043	508	521	178	1,139	782	701	183	132	676	132	1,151	4,190	706	3,802	445	493	778
Housing, water, electricity, gas and other fuels	1,469	1,857	6,723	1,437	2,420	39,868	1,266	1,553	1,285	6,611	8,814	2,268	763	656	2,140	2,041	4,431	27,532	2,214	17,647	2,555	2,615	2,836
Health and education	823	2,166	15,377	1,261	4,913	37,648	1,273	2,342	902	6,350	7,610	2,703	583	451	1,419	2,122	8,816	33,228	1,799	20,129	5,518	2,167	4,489
Health	322	1,233	3,950	642	1,357	21,294	562	809	346	2,570	4,104	1,024	313	216	852	688	4,916	17,488	987	11,382	2,661	1,052	2,379
Education	501	933	11,427	619	3,556	16,354	712	1,533	556	3,780	3,506	1,679	270	235	567	1,434	3,900	15,740	812	8,747	2,857	1,115	2,110
Transportation and communication	417	2,530	10,170	704	4,690	22,991	1,610	3,150	860	9,296	4,335	2,145	301	225	763	2,428	3,641	31,420	4,470	15,345	4,056	1,572	2,651
Transportation	374	2,061	7,907	682	3,260	16,963	1,439	2,465	662	5,815	2,232	1,576	209	160	557	1,953	2,585	24,531	4,259	12,115	3,473	1,488	2,044
Recreation and culture	143	449	3,727	251	585	26,263	83	801	186	2,887	1,373	627	68	177	437	310	1,546	19,451	2,459	9,888	1,414	519	911
Restaurants and hotels	206	337	2,740	439	413	22,555	179	1,683	1,123	4,502	2,538	399	268	94	291	705	1,279	17,256	779	8,322	2,533	522	922
Other consumption expenditure items	825	1,889	5,621	783	9,659	67,796	1,953	2,890	2,376	8,264	4,972	2,702	386	468	1,376	3,381	6,226	41,283	3,625	24,717	5,789	1,606	3,961
Individual Consumption Expenditure by Government	171	1,455	13,851	513	2,581	13,756	517	1,051	471	4,634	5,310	1,527	239	139	551	1,268	6,468	17,062	1,313	14,244	4,184	913	2,988
Collective Consumption Expenditure by Government	612	2,998	44,416	404	5,595	21,618	1,120	1,695	2,361	4,685	6,515	2,074	1,477	628	869	1,351	4,382	32,322	1,382	12,503	4,230	1,222	2,581
Gross Fixed Capital Formation	3,909	13,903	90,377	1,178	8,460	77,924	4,315	9,720	6,355	19,329	32,266	6,968	2,861	2,149	1,835	5,826	29,253	124,067	8,349	38,947	11,906	4,401	14,512
Machinery and equipment	1,145	4,085	30,187	536	5,285	21,838	1,303	1,595	1,793	5,683	11,982	2,397	1,215	455	638	2,131	5,394	36,788	4,290	15,244	6,912	1,026	3,127
Construction	2,743	9,305	54,172	628	2,590	48,761	2,222	7,302	2,814	11,173	19,290	3,028	1,390	1,284	784	2,857	20,421	48,255	3,642	13,974	4,030	3,131	9,559
Change in Inventories and Net Acquisitions of Valuables	20	-15	-4,391	58	538	1,485	739	125	0	246	1,010	1,902	123	940	198	29	1,221	9,313	3,288	-447	-170	518	779
Balance of Exports and Imports	-892	-5,544	30,743	-12	-1,707	3,910	-438	307	-499	5,317	1,293	669	-709	-2,282	-1,257	-2,294	1,185	118,442	-2,282	24,246	7,253	519	619
Individual Consumption Expenditure by Households and NPISH	8,833	14,296	45,068	8,763	32,106	241,555	8,941	17,320	10,337	42,379	30,743	15,137	5,278	5,180	10,153	17,115	25,753	168,702	19,698	100,673	25,042	10,932	17,846
Government Final Consumption Expenditure	783	4,453	58,267	917	8,176	35,374	1,637	2,746	2,832	9,319	11,825	3,601	1,716	766	1,420	2,619	10,850	49,384	2,696	26,747	8,414	2,136	5,570
Actual Individual Consumption by Households ^a	9,004	15,752	58,920	9,276	34,687	255,310	9,458	18,371	10,808	47,013	36,053	16,664	5,517	5,319	10,704	18,383	32,220	185,763	21,011	114,917	29,226	11,845	20,835
All goods	6,819	10,485	22,039	6,180	22,833	86,686	5,048	10,708	7,861	24,708	15,297	9,240	4,120	4,049	6,585	11,373	13,938	52,337	10,630	47,772	14,815	8,081	9,972
Non-durables	5,870	7,557	13,344	5,430	17,719	43,557	3,965	7,800	6,512	18,915	11,286	7,340	3,789	3,622	5,438	10,246	9,064	23,433	7,507	26,959	11,313	5,847	7,019
Semi-durables	636	1,595	3,992	268	1,685	21,704	711	1,321	433	2,322	1,706	1,188	227	211	871	501	2,330	9,324	2,882	9,100	1,344	785	1,479
Durables	313	1,332	4,703	482	3,428	21,425	372	1,587	916	3,471	2,305	712	104	216	277	626	2,544	19,579	241	11,713	2,158	1,448	1,474
Services	1,859	3,811	17,947	2,114	8,039	143,607	3,947	6,255	3,166	19,526	15,446	5,518	1,157	1,030	3,520	5,742	11,814	114,745	9,900	51,662	9,710	3,940	7,863

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.

^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

Per Capita Nominal Expenditure, 2011 (Revised) (Hong Kong dollars)

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	6,911	20,851	366,586	6,980	37,256	273,549	11,692	28,724	11,337	517,164	79,804	53,144	29,081	8,413	5,720	9,754	18,525	43,854	419,491	25,167	163,021	43,593	11,974	28,222	
Actual Individual Consumption by Households ^a	5,212	10,321	62,743	5,882	27,709	182,347	6,901	16,892	7,095	123,254	43,482	19,887	16,591	5,162	4,561	8,279	14,372	18,818	167,452	18,940	101,271	27,014	7,593	14,214	
Food and non-alcoholic beverages	2,645	2,998	7,878	2,623	9,568	19,439	1,992	5,134	2,635	8,951	8,316	4,361	4,775	2,962	2,572	3,658	5,826	3,536	10,638	5,535	11,636	6,803	2,286	3,305	
Food	2,634	2,851	7,080	2,513	8,966	18,647	1,954	4,728	2,276	8,530	7,949	3,782	4,381	2,892	2,538	3,514	5,380	3,447	9,520	5,416	10,871	5,960	2,209	3,179	
Bread and cereals	1,176	794	1,591	805	1,869	1,711	482	1,417	601	1,439	1,130	1,000	504	787	1,051	821	1,977	749	1,669	1,873	2,499	1,320	660	792	
Meat and fish	505	340	2,537	776	2,131	10,484	158	1,269	1,007	3,798	2,680	1,135	1,500	895	420	330	1,858	1,144	3,624	702	3,439	1,488	913	806	
Fruits and vegetables	358	761	1,275	377	2,610	2,330	527	734	355	1,886	1,637	710	509	692	436	479	620	883	1,774	600	3,302	2,047	321	726	
Other food and non-alcoholic beverages	607	1,103	2,476	665	2,958	4,913	825	1,713	671	1,829	2,869	1,516	2,262	588	665	2,027	1,371	761	3,571	2,360	2,396	1,948	392	981	
Clothing and footwear	313	752	1,982	111	1,249	8,474	414	645	145	6,831	1,155	484	767	181	113	385	193	1,301	4,431	958	3,964	842	351	807	
Clothing	280	510	1,645	57	1,027	5,730	333	564	116	5,219	1,012	385	679	155	94	317	133	1,077	3,541	902	3,445	797	297	668	
Housing, water, electricity, gas and other fuels	900	1,802	7,036	871	2,577	29,727	1,072	1,505	794	17,302	6,462	5,491	2,468	771	512	1,591	1,717	2,608	26,645	1,730	16,380	2,203	1,721	1,990	
Health and education	475	2,128	17,315	813	3,946	25,924	805	2,141	440	16,927	6,647	3,439	2,420	373	429	919	1,388	4,716	26,896	1,724	18,587	4,698	1,242	2,715	
Health	190	1,185	4,490	414	1,158	13,867	323	803	216	8,405	2,531	1,570	737	217	188	521	402	2,823	12,352	947	9,554	2,210	586	1,472	
Education	285	942	12,824	398	2,788	12,057	481	1,339	223	8,522	4,116	1,869	1,683	155	240	398	985	1,893	14,544	777	9,033	2,488	656	1,242	
Transportation and communication	244	1,221	10,568	451	3,440	16,518	1,141	2,926	911	12,724	8,298	2,573	3,402	256	196	668	1,900	1,738	27,768	3,397	14,306	4,289	841	1,706	
Transportation	219	973	8,217	437	2,326	12,769	989	2,163	758	9,614	5,410	918	2,876	178	135	531	1,470	1,100	20,073	3,226	10,771	3,741	778	1,261	
Recreation and culture	38	634	3,915	161	598	20,567	75	738	124	11,394	2,750	435	474	59	180	91	249	1,023	21,900	1,860	8,643	1,187	334	672	
Restaurants and hotels	118	117	2,847	281	354	17,703	155	1,413	729	20,995	3,859	428	268	228	89	84	503	958	15,429	619	6,378	2,104	343	724	
Other consumption expenditure items	478	671	5,930	486	5,979	43,994	1,281	2,391	1,415	15,364	8,565	2,674	1,851	333	485	883	2,596	2,938	35,531	3,239	21,378	4,889	974	2,340	
Individual Consumption Expenditure by Government	99	1,654	15,892	328	2,202	9,203	378	973	191	14,367	5,202	2,338	1,618	79	188	298	762	3,751	14,010	1,009	12,438	3,428	536	1,904	
Collective Consumption Expenditure by Government	251	2,530	52,761	259	3,755	14,627	920	1,629	800	22,442	5,389	9,039	1,946	930	360	690	1,035	2,742	24,699	1,144	12,251	3,761	708	1,844	
Gross Fixed Capital Formation	1,926	14,163	111,812	809	6,821	64,383	3,872	8,993	3,661	64,523	17,622	17,819	14,079	2,626	1,225	1,270	3,471	19,992	105,876	6,615	38,123	11,497	3,562	10,813	
Machinery and equipment	426	5,429	37,346	343	4,261	28,218	1,174	1,695	560	12,547	6,422	5,945	7,793	1,216	267	375	1,094	5,545	33,908	3,687	15,714	7,365	910	3,148	
Construction	1,443	8,227	67,019	403	2,088	30,292	2,226	6,572	1,791	49,026	8,581	11,874	4,689	1,056	681	607	1,730	12,615	54,837	2,761	14,659	3,607	2,432	6,594	
Change in Inventories and Net Acquisitions of Valuables	53	-57	-5,432	37	1,005	1,660	647	499	152	6,971	883	269	2,832	9	948	156	320	1,174	5,985	1,786	409	434	606	781	
Balance of Exports and Imports	-531	-6,106	144,701	-8	-2,034	10,532	-648	711	-372	299,974	12,428	6,131	-6,367	-315	-1,374	-642	-674	1,127	115,480	-3,320	10,966	887	-495	568	
Individual Consumption Expenditure by Households and NPISH	5,113	8,666	46,851	5,554	25,507	173,144	6,523	15,920	6,904	108,886	38,280	17,548	14,973	5,084	4,373	7,982	13,610	15,067	153,442	17,931	88,833	23,586	7,057	12,311	
Government Final Consumption Expenditure	350	4,184	68,653	587	5,957	23,830	1,298	2,602	992	36,809	10,590	11,377	3,564	1,008	548	988	1,797	6,493	38,708	2,153	24,690	7,189	1,244	3,748	
Actual Individual Consumption by Households ^a	5,212	10,321	62,743	5,882	27,709	182,347	6,901	16,892	7,095	123,254	43,482	19,887	16,591	5,162	4,561	8,279	14,372	18,818	167,452	18,940	101,271	27,014	7,593	14,214	
All goods	3,947	6,076	22,903	3,946	17,277	66,211	3,785	10,115	4,947	34,917	22,067	9,136	8,827	3,998	3,318	5,856	9,139	9,762	50,232	9,814	43,166	14,695	4,939	7,599	
Non-durables	3,394	4,640	13,866	3,465	14,028	32,719	3,044	7,148	3,897	17,564	16,703	7,321	7,089	3,717	2,977	5,115	8,268	6,311	23,756	7,554	24,150	10,882	3,688	5,357	
Semi-durables	371	908	4,148	172	1,370	15,328	480	1,226	298	8,731	2,068	766	981	192	161	489	427	1,847	9,126	1,927	8,453	1,663	477	1,172	
Durables	182	528	4,889	309	1,879	18,164	262	1,741	752	8,622	3,296	1,049	758	88	180	252	445	1,603	17,350	334	10,562	2,150	774	1,070	
Services	1,072	2,590	18,667	1,307	7,192	99,132	2,772	5,509	2,053	57,597	18,752	8,412	5,811	1,086	974	2,091	4,470	5,305	103,096	8,238	44,522	8,458	2,584	4,694	
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.

^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.