

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, 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	26,401	70,855	362,379	23,853	80,772	360,247	36,965	66,419	43,944	153,532	112,187	67,241	26,519	17,431	29,905	46,721	85,061	564,960	75,587	283,878	106,892	43,179	61,375
Actual Individual Consumption by Households ^a	20,301	43,196	97,121	21,161	60,057	255,310	25,118	40,391	25,055	95,858	47,964	41,482	16,267	15,041	27,599	38,916	41,613	192,614	51,965	173,917	62,106	28,955	35,472
Food and non-alcoholic beverages	8,727	11,369	10,950	7,758	16,471	25,959	6,352	8,916	8,180	18,930	8,650	9,899	6,614	7,206	7,322	13,918	6,233	13,644	10,075	17,712	13,023	6,966	7,256
Food	8,748	10,702	9,993	7,527	15,796	24,354	6,373	8,019	6,990	18,342	7,589	9,169	6,509	7,230	7,066	12,656	6,075	11,938	10,006	16,504	11,450	6,758	7,038
Bread and cereals	3,407	2,535	2,219	2,357	3,012	2,525	1,346	1,791	1,786	2,443	1,312	1,207	1,232	2,412	1,641	4,027	902	1,922	3,219	3,430	2,219	1,850	1,468
Meat and fish	1,627	1,367	3,936	2,186	3,229	12,392	539	2,773	2,944	5,952	3,529	4,258	2,204	1,011	796	5,162	2,446	3,959	1,497	5,349	3,072	2,881	1,836
Fruits and vegetables	1,643	2,791	1,349	1,141	5,122	3,557	2,270	1,251	1,172	3,994	1,116	394	1,750	1,876	1,249	1,358	1,745	2,542	1,525	4,616	3,971	1,020	1,911
Other food and non-alcoholic beverages	1,889	4,591	3,662	1,994	5,093	7,484	2,313	3,182	2,277	6,729	3,130	4,381	1,494	2,003	3,565	3,423	1,290	5,459	3,828	4,294	3,730	1,182	2,135
Clothing and footwear	967	2,564	1,688	313	2,021	12,229	1,708	974	461	2,224	1,507	1,537	479	365	1,601	258	998	5,114	1,721	6,594	951	1,211	1,319
Clothing	891	2,059	1,517	158	1,802	8,043	1,397	820	379	2,032	1,168	1,288	425	314	1,335	198	789	4,621	1,620	5,971	961	1,057	1,084
Housing, water, electricity, gas and other fuels	4,591	7,690	19,297	3,398	7,159	39,868	4,131	5,901	3,826	19,182	8,083	5,717	3,865	2,474	7,376	5,444	6,922	25,209	7,577	26,629	7,885	6,230	5,994
Health and education	3,190	14,074	36,636	6,973	12,291	37,648	6,299	9,626	7,319	16,858	18,690	16,427	3,916	3,179	6,967	7,477	16,200	38,718	16,662	49,759	19,927	11,458	10,954
Health	1,345	9,103	7,943	2,866	3,822	21,294	3,150	3,280	2,145	6,878	11,501	5,666	1,947	1,353	3,709	2,019	11,014	17,683	6,937	33,725	8,487	4,622	6,363
Education	1,845	5,470	32,719	4,151	8,565	16,354	3,113	6,519	5,541	10,159	7,803	11,362	1,958	1,812	3,166	5,850	5,850	21,049	10,092	17,606	11,637	7,012	4,862
Transportation and communication	848	4,862	11,210	1,193	8,291	22,991	3,574	5,789	1,308	16,178	4,350	4,139	588	439	1,689	4,143	5,662	26,027	8,017	24,070	6,982	2,938	4,591
Transportation	747	4,244	9,967	1,124	5,410	16,963	3,043	4,667	997	11,273	2,426	3,282	438	256	1,166	3,555	4,278	20,003	7,362	18,335	6,146	2,630	3,644
Recreation and culture	233	730	3,471	368	762	26,263	152	1,070	269	3,972	1,179	973	127	441	740	488	1,564	22,894	3,538	11,760	1,882	899	1,039
Restaurants and hotels	447	887	4,774	939	579	22,555	375	3,668	1,710	10,152	4,447	766	646	280	617	1,288	1,507	21,731	1,393	13,164	5,556	1,322	1,427
Other consumption expenditure items	1,570	4,355	9,726	1,787	12,524	67,796	3,804	5,589	4,882	13,844	6,712	6,067	1,041	957	3,035	6,655	6,611	37,263	7,202	33,822	9,910	3,747	5,410
Individual Consumption Expenditure by Government	502	8,087	34,673	1,899	6,002	13,756	1,163	3,668	2,900	11,798	11,761	10,191	1,293	516	1,565	3,014	9,286	20,109	10,255	29,420	13,057	4,302	5,034
Collective Consumption Expenditure by Government	1,374	14,383	113,259	898	10,782	21,618	2,063	4,860	9,112	10,660	12,499	8,637	5,225	1,405	2,056	2,909	5,253	45,883	6,778	21,714	9,640	4,178	4,003
Gross Fixed Capital Formation	6,616	25,672	132,105	2,240	13,726	77,924	9,339	20,099	12,042	37,035	50,477	13,066	7,026	4,033	3,505	9,799	34,209	151,506	15,270	51,992	22,173	8,435	19,795
Machinery and equipment	946	3,588	26,197	535	5,300	21,838	1,627	1,657	1,763	6,329	10,950	2,566	1,556	529	695	2,137	4,663	31,125	4,416	13,862	7,234	1,109	2,972
Construction	7,884	29,896	119,441	1,991	5,913	48,761	7,335	25,156	9,128	32,637	46,048	8,850	5,754	3,541	2,354	7,146	31,208	71,169	10,519	23,251	11,997	9,326	17,659
Change in Inventories and Net Acquisitions of Valuables	35	-31	-6,342	106	778	1,485	1,572	233	0	451	1,383	3,767	292	1,957	431	50	1,396	9,994	5,693	-600	-300	1,012	1,188
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	19,282	36,422	71,556	19,097	53,908	241,555	23,954	36,471	22,065	84,526	38,688	33,862	14,750	14,212	25,791	35,630	33,620	172,694	43,335	147,894	51,232	25,088	30,933
Government Final Consumption Expenditure	1,966	22,991	149,626	2,592	17,113	35,374	3,294	8,558	12,806	22,237	24,196	18,416	7,046	2,035	3,649	5,882	14,144	66,233	16,177	50,555	21,978	8,358	8,905
Actual Individual Consumption by Households ^a	20,301	43,196	97,121	21,161	60,057	255,310	25,118	40,391	25,055	95,858	47,964	41,482	16,267	15,041	27,599	38,916	41,613	192,614	51,965	173,917	62,106	28,955	35,472
All goods	11,698	21,596	31,484	10,314	29,034	86,686	10,792	17,516	13,357	40,741	17,900	17,452	8,926	8,303	13,890	17,975	15,667	48,365	16,977	63,539	23,390	14,754	14,560
Non-durables	11,403	18,025	24,238	10,222	24,927	43,557	9,496	14,272	12,487	34,442	15,477	15,771	9,330	8,505	13,188	18,242	11,558	23,554	13,557	38,848	19,956	12,195	11,870
Semi-durables	1,062	3,009	4,026	445	2,098	21,704	1,582	2,191	787	3,826	2,099	1,908	483	491	1,598	676	1,608	9,765	4,812	13,103	2,121	1,421	1,724
Durables	342	1,760	3,745	524	3,305	21,425	537	1,830	1,037	4,474	1,457	984	136	237	384	760	2,756	12,510	260	12,261	2,452	1,722	1,650
Services	5,246	11,584	28,852	6,289	18,955	143,607	13,259	17,019	8,330	45,363	19,598	13,528	4,294	4,174	10,301	16,250	17,133	127,775	30,285	80,239	25,942	10,800	15,668

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 Real 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	14,715	39,896	439,565	13,888	47,339	273,549	23,589	48,211	22,951	627,887	111,962	66,359	46,365	17,669	11,270	22,680	29,803	54,043	418,895	47,607	213,157	72,134	23,874	40,517	
Actual Individual Consumption by Households ^a	11,770	21,456	70,526	12,331	35,883	182,347	15,558	29,019	14,394	139,419	62,327	24,814	28,936	11,616	9,773	20,922	24,430	23,940	141,677	38,396	135,339	47,858	15,995	22,320	
Food and non-alcoholic beverages	4,831	5,525	8,884	4,394	11,562	19,439	4,257	6,929	3,855	8,963	10,819	5,385	6,504	5,044	4,786	7,311	8,735	4,273	9,397	8,263	13,639	10,019	3,811	5,029	
Food	4,855	5,345	7,974	4,244	10,997	18,647	4,248	6,409	3,408	8,530	10,394	4,731	6,042	5,022	4,787	7,133	7,966	4,169	8,205	8,201	12,735	8,890	3,690	4,884	
Bread and cereals	1,920	1,326	1,991	1,331	2,134	1,711	955	1,740	760	1,312	1,307	962	609	1,133	1,823	1,406	2,605	789	1,316	2,649	2,471	1,637	1,025	1,102	
Meat and fish	843	701	2,790	1,255	2,390	10,484	324	1,888	1,566	3,893	3,878	2,015	2,648	1,673	736	659	3,209	1,453	2,969	1,164	4,026	2,528	1,437	1,152	
Fruits and vegetables	1,049	1,641	1,221	713	3,852	2,330	1,343	1,080	674	1,936	2,044	618	439	1,515	1,074	1,484	837	1,239	1,635	1,009	4,411	3,223	654	1,308	
Other food and non-alcoholic beverages	1,012	1,836	2,900	1,040	3,225	4,913	1,640	2,138	876	1,887	3,744	1,933	2,976	866	1,146	3,733	2,065	854	3,555	3,219	2,937	2,723	646	1,489	
Clothing and footwear	487	1,275	1,367	206	1,271	8,474	890	628	265	5,282	1,064	542	749	343	211	674	201	1,049	3,338	1,616	4,732	1,230	633	920	
Clothing	420	863	1,147	103	1,061	5,730	733	537	208	3,935	927	404	666	286	171	539	135	836	2,742	1,518	3,993	1,135	521	749	
Housing, water, electricity, gas and other fuels	3,010	4,299	9,602	1,983	6,111	29,727	2,957	5,099	2,178	23,684	13,878	4,962	4,417	2,466	1,536	6,617	3,941	4,400	20,359	5,715	21,456	6,787	3,553	4,229	
Health and education	2,040	7,539	27,230	4,187	6,816	25,924	3,568	6,292	3,159	25,147	13,706	7,005	11,834	2,716	1,966	4,783	3,689	7,814	24,970	8,293	34,645	12,881	7,028	5,991	
Health	786	4,033	6,981	1,914	1,925	13,867	1,726	1,792	941	11,021	5,041	3,732	3,664	1,168	889	3,016	849	5,393	11,303	3,988	21,943	5,941	3,178	3,428	
Education	1,265	3,555	21,547	2,285	5,115	12,057	1,786	5,016	2,479	14,356	8,908	3,424	8,553	1,540	1,074	1,799	3,086	2,760	13,985	4,322	14,052	7,029	3,883	2,730	
Transportation and communication	429	2,292	12,097	678	3,185	16,518	1,882	3,908	1,320	13,907	9,347	3,296	4,824	339	225	1,219	2,434	2,299	19,411	5,078	19,451	5,975	986	2,365	
Transportation	347	1,905	13,169	727	2,662	12,769	1,687	3,314	1,089	11,188	7,609	1,126	5,001	257	156	1,031	2,396	1,603	15,773	5,136	15,051	5,739	1,008	1,921	
Recreation and culture	48	838	2,840	221	512	20,567	99	949	143	10,411	2,949	375	497	92	252	150	288	1,160	21,666	2,448	8,890	1,399	523	767	
Restaurants and hotels	250	263	2,534	580	359	17,703	253	2,201	1,236	21,979	6,250	677	364	558	181	159	857	1,308	15,690	807	9,922	4,351	720	1,064	
Other consumption expenditure items	1,140	1,222	5,097	1,056	6,796	43,994	2,408	3,624	2,736	15,879	10,680	3,924	3,125	632	922	1,888	4,482	3,256	25,840	6,415	27,284	7,268	2,264	3,204	
Individual Consumption Expenditure by Government	340	5,635	26,252	1,449	3,352	9,203	977	3,053	1,326	18,957	10,204	4,420	7,527	382	516	966	1,462	5,917	13,760	5,365	19,635	8,125	2,377	3,393	
Collective Consumption Expenditure by Government	636	8,315	97,009	668	5,252	14,227	1,895	3,557	3,045	24,643	8,945	15,845	5,047	2,705	635	1,948	1,509	3,366	26,967	3,795	17,920	6,357	2,154	2,845	
Gross Fixed Capital Formation	3,535	20,649	117,023	1,410	8,823	64,383	6,481	14,554	6,652	72,324	23,331	20,320	18,170	4,647	1,911	2,199	5,255	23,727	117,279	9,542	48,307	17,610	6,007	14,018	
Machinery and equipment	487	5,182	36,917	361	4,324	28,218	1,319	1,839	614	14,330	6,715	6,017	7,444	1,282	290	421	1,122	5,312	35,363	3,586	17,244	7,716	1,025	3,150	
Construction	4,032	18,128	79,510	1,153	3,377	30,292	5,578	15,499	5,439	63,182	14,564	16,355	8,198	3,258	1,544	1,678	3,886	19,263	65,905	6,024	21,107	8,363	6,041	11,427	
Change in Inventories and Net Acquisitions of Valuables	93	-92	-5,478	60	1,190	1,660	1,100	722	253	7,210	1,124	304	3,731	15	1,596	304	457	1,329	5,402	2,644	511	634	1,019	1,049	
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	11,122	17,216	51,391	10,951	32,651	173,144	14,452	26,024	12,874	122,664	53,569	21,101	23,675	10,835	9,122	19,610	22,781	19,101	128,182	33,458	117,693	40,892	13,947	19,311	
Government Final Consumption Expenditure	1,000	14,038	124,044	1,936	8,651	23,830	2,941	6,577	4,601	43,569	18,810	20,751	12,036	3,436	1,151	2,983	2,937	8,884	40,966	8,763	37,301	14,002	4,427	6,099	
Actual Individual Consumption by Households ^a	11,770	21,456	70,526	12,331	35,883	182,347	15,558	29,019	14,394	139,419	62,327	24,814	28,936	11,616	9,773	20,922	24,430	23,940	141,677	38,396	135,339	47,858	15,995	22,320	
All goods	6,657	10,481	23,960	6,108	18,597	66,211	7,265	12,727	7,292	33,954	26,262	10,443	11,970	6,421	5,498	11,650	11,952	10,351	37,496	14,446	53,311	20,054	7,994	10,011	
Non-durables	6,757	8,888	15,922	5,809	16,868	32,719	6,566	10,091	6,191	18,089	22,589	9,573	10,482	6,621	5,775	11,610	11,859	7,437	18,535	12,397	30,814	16,203	6,933	8,111	
Semi-durables	530	1,401	3,040	285	1,317	15,328	878	1,311	508	7,026	1,952	765	961	343	270	808	452	1,431	7,052	2,845	9,915	2,155	768	1,210	
Durables	161	699	4,894	365	1,437	18,164	318	1,659	848	7,831	2,882	792	1,039	91	142	318	527	1,569	10,711	307	12,359	2,329	720	1,076	
Services	3,245	5,606	18,645	3,415	10,958	99,132	6,916	12,126	5,030	71,970	30,487	9,989	10,231	3,482	2,688	6,450	10,044	7,915	94,394	19,696	60,930	19,322	6,030	8,605	
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.