

SPECIAL RELEASE

Summary Inflation Report of the Consumer Price Index in Ilocos Region: July 2023 (2018=100)

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Consumer Price Index

The Consumer Price Index (CPI) of the Ilocos Region in July 2023 was posted at 119.8. This means that one needs PhP119.80 to purchase the same set of goods and services that were worth Php100.00 in 2018.

The region's CPI in July 2023 decreased by 3.6 percent from 6.3 percent in July 2022. Meanwhile, there was no movement from the June 2023 CPI. (see Table 2)

Figure 1. Consumer Price Index, Ilocos Region July 2023, June 2023, and July 2022 (2018=100)

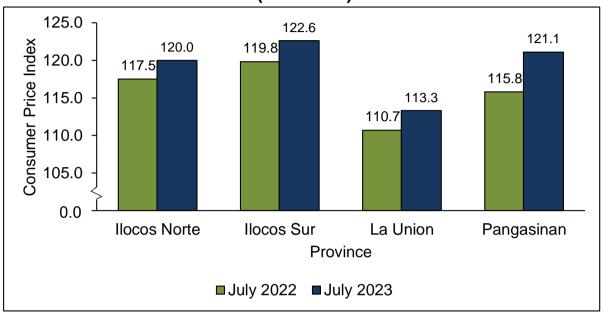


Data Source:
Retail Price Survey of Commodities for the Generation of Consumer Price
Index, Philippine Statistics Authority
Image Source: freepik.com



By Province

Figure 2. Consumer Price Index by Province, Ilocos Region July 2022 and July 2023 (2018=100)



Source: Retail Price Survey of Commodities for the Generation of Consumer Price Index, Philippine Statistics Authority

Among the provinces, Ilocos Sur posted the highest price index in July 2023 at 122.6. Pangasinan followed at 121.1, and Ilocos Norte at 120.0. Meanwhile, La Union recorded the lowest price index of 113.3 during the period.

Compared to the July 2022 levels, all provinces marked increases in the price index. Pangasinan recorded the highest increase of 5.3 percentage points, followed by Ilocos Sur with 2.8 percentage points. La Union and Ilocos Norte increased by 2.6, and 2.5 percentage points, respectively.

By Commodity Group

The top three commodity groups that recorded high price indices in July 2023 were: alcoholic beverages and tobacco (158.0); financial services (146.0); and food and non-alcoholic beverages (123.8). On the other hand, the bottom three commodity groups with low price indices were: information and communication (101.8); recreation, sport and culture (111.5); education services and (113.2).

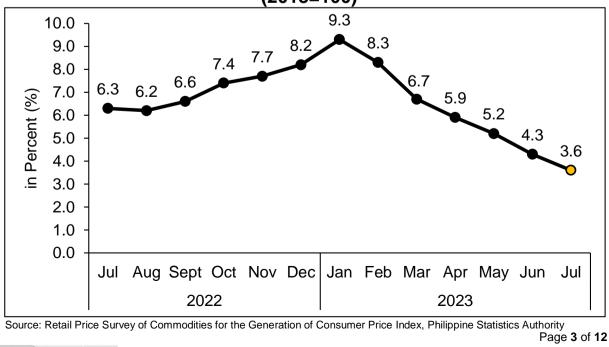
Table 1. Consumer Price Index by Commodity Group and Province, Ilocos Region: July 2023 (2018 = 100)

Commodity Group	Ilocos Region	llocos Norte	llocos Sur	La Union	Pangasinan
Food and Non-Alcoholic Beverages	123.8	125.4	124.8	118.0	124.8
Alcoholic Beverages and Tobacco	158.0	133.6	142.0	152.3	168.4
Clothing and Footwear	118.7	123.1	122.2	112.0	119.5
Housing, Water, Electricity, Gas and Other Fuels	115.6	124.4	119.0	108.0	114.9
Furnishings, Household Equipment and Routine Maintenance of the House	118.1	109.1	118.9	110.6	122.1
Health	119.3	116.3	123.5	111.0	122.1
Transport	120.2	114.8	119.4	118.8	122.3
Information and Communication	101.8	100.6	100.8	101.4	102.5
Recreation, Sport and Culture	111.5	105.4	110.1	107.5	115.6
Education Services	113.2	107.6	107.9	100.2	117.8
Restaurant and Accommodation Services	114.9	106.2	132.4	106.1	116.6
Financial Services	146.0	146.0	146.0	145.5	146.0
Personal Care and Miscellaneous Goods and Services	117.4	124.6	119.0	109.3	117.9

Source: Retail Price Survey of Commodities for the Generation of Consumer Price Index, Philippine Statistics Authority

Inflation Rate

Figure 3. Headline Inflation Rates in Ilocos Region, All Items July 2022 - July 2023 (2018=100)





As shown in Figure 3, the inflation rate of the Ilocos Region decreased from 4.3 percent in June 2023 to 3.6 percent in July 2023, lower by of 0.7 percentage point. Furthermore, it is lower by 2.7 percentage points from the recorded rate of 6.3 percent in July 2022

Nine out of the thirteen commodity groups exhibited lower inflation rates that contributed to the slower inflation in Ilocos Region in July 2023:

- a. Housing, water, electricity, gas and other fuels, 1.0 percent;
- b. Food and non-alcoholic beverages at 6.4 percent;
- c. Transport, -9.1 percent;
- d. Restaurants and accommodation services, 4.6 percent;
- e. Clothing and footwear, 5.3 percent;
- f. Health, 5.7 percent;
- g. Personal care, and miscellaneous goods and services, 6.6 percent;
- h. Furnishings, household equipment and routine household maintenance, 8.6 percent; and
- i. Recreation, sport and culture, 3.2 percent.

Meanwhile, alcoholic beverages and tobacco went up to 9.2 percent in July 2023. The rest of the commodity groups retained their previous month's inflation rates or had zero percent annual growths. (see Table 2)

(2018=100)9.0 8.3 7.6 8.0 7.0 6.0 in Percent (%) 2.0 4.0 3.0 3.0 4.6 4.3 2.3 2.3 2.1 2.0 1.0 0.0 **Ilocos Norte Ilocos Sur** La Union Pangasinan

Figure 4. Headline Inflation Rates by Province, Ilocos Region July 2022 and July 2023 (2018=100)

Source: Retail Price Survey of Commodities for the Generation of Consumer Price Index, Philippine Statistics Authority

■ July 2022 ■ July 2023



By Province

Among the provinces, Pangasinan posted the highest inflation rate at 4.6 percent in July 2023 followed by Ilocos Sur and La Union, both at 2.3 percent, and Ilocos Norte at 2.1 percent.

Compared to their respective levels in July 2022, all provinces exhibited decreases in inflation rates. Ilocos Norte decreased by 6.2 percentage points while Ilocos Sur and La Union exhibited decreased inflation rate by 5.3 percentage points and 2.0 percentage points, respectively. The province of Pangasinan exhibited decreased inflation rate by 1.4 percentage points.

Purchasing Power of Peso

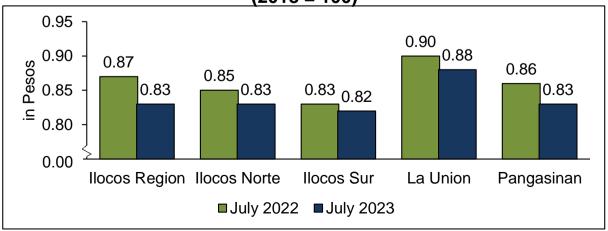


The Purchasing Power of the Peso (PPP) in the Ilocos Region in July 2023 was posted at PhP0.83. This means that the purchasing capability of PhP1.00 in 2018 has decreased by 17 centavos.

Among the provinces, La Union posted the highest PPP in July 2023 with PhP0.88. It was followed by Ilocos Norte and Pangasinan, both with PhP0.83 PPP. Meanwhile, Ilocos Sur recorded the lowest PPP of PhP0.82.

It can be gleaned in Figure 5 that PPPs in all the provinces of the region in July 2023 were lower than their respective levels in July 2022. Pangasinan has the highest decrease of Php0.03 followed by Ilocos Norte and La Union, both decreased by PhP0.02. Meanwhile, Ilocos Sur's PPP decreased by PhP0.01.

Figure 5. Purchasing Power of the Peso by Province Ilocos Region: July 2022 and July 2023 (2018 = 100)



Source: Retail Price Survey of Commodities for the Generation of Consumer Price Index, Philippine Statistics Authority
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Table 2. Consumer Price Index and Inflation Rate for All Income Households by Commodity, Ilocos Region July 2023, June 2023 and July 2022 (2018=100)

Commodity Group	СРІ			Inflation Rate			
	Jul 23	Jun 23	Jul 22	Jul 23	Jun 23	Jul 22	
ALL ITEMS	119.8	119.8	115.6	3.6	4.3	6.3	
FOOD AND NON-ALCOHOLIC							
BEVERAGES	123.8	123.1	116.3	6.4	7.1	6.2	
ALCOHOLIC BEVERAGES AND							
TOBACCO	158.0	157.4	144.7	9.2	9.0	5.7	
CLOTHING AND FOOTWEAR	118.7	118.7	112.7	5.3	5.9	3.1	
HOUSING, WATER, ELECTRICITY,							
GAS AND OTHER FUELS	115.6	117.0	114.5	1.0	2.4	7.1	
FURNISHINGS, HOUSEHOLD							
EQUIPMENT AND ROUTINE							
HOUSEHOLD MAINTENANCE	118.1	117.9	108.7	8.6	8.7	3.9	
HEALTH	119.3	119.1	112.9	5.7	5.9	3.6	
TRANSPORT	120.2	120.5	132.3	-9.1	-8.4	20.3	
INFORMATION AND COMMUNICATION	101.8	101.8	101.0	0.8	0.8	0.3	
RECREATION, SPORT AND CULTURE	111.5	111.5	108.0	3.2	3.3	3.2	
EDUCATION SERVICES	113.2	113.2	110.0	2.9	2.9	0.0	
RESTAURANTS AND			4000		4.0	4.0	
ACCOMMODATION SERVICES	114.9	114.9	109.8	4.6	4.8	1.3	
FINANCIAL SERVICES	146.0	146.0	146.0	0.0	0.0	0.0	
PERSONAL CARE AND MISCELLANEOUS GOODS AND SERVICES	117.4	116.9	110.1	6.6	6.7	3.5	

Source: Retail Price Survey of Commodities for the Generation of Consumer Price Index, Philippine Statistics Authority

TECHNICAL NOTES

The Philippine Statistics Authority generates and announces the monthly Consumer Price Index (CPI) based on a nationwide survey of prices for a given basket of goods and services.

The **CPI** is an indicator of the change in the average retail prices of a fixed basket of goods and services commonly purchased by households relative to a base year. It shows how much on the average, prices of goods and services have increased or decreased from a particular reference period known as base year. It also serves as a basis for economic analysis, collective bargaining agreements, for wage adjustments, and for monitoring the effects of government economic policy on households.

Rebasing of CPI to Base Year 2018 and Adopting the Chain Method in the 2018-based CPI

The Philippine Statistics Authority (PSA) released the Consumer Price Index (CPI) for All Income Households with base year 2018 on 04 February 2022. The 2018-based CPI is the eleventh in the rebasing series. This was announced in Press Release Number 2022-01 dated 04 January 2022. Data users can expect two sets of the CPI as the new series shall be issued simultaneously with the 2012-based series. The CPI series for January 2022 onwards shall be 2018-based.

1. Identification of the Base Year

The base period is the period, usually a year, at which the index number is set to 100. It is the reference point of the index number series. The CPI is now rebased to 2018 base year from the current 2012 base year.

The year 2018 was chosen as the next base year because it was the latest year when the Family Income and Expenditure Survey (FIES) results were made available. It is also in accordance with PSA Board Resolution No. 1, Series of 2017-146, which approved the synchronized rebasing of the price indices to base year 2006 and every six (6) years thereafter.

2. Determination of the Market Basket

Market basket refers to a sample of goods and services, which is meant to represent the totality of all goods and services purchased by households relative to a base year.

Determining the right market basket is crucial because inadequate representation of the typical basket will give wrong signals as to the behavior of prices, a very important factor in economic planning.

To determine the commodities that will form the market basket for the 2018-based CPI, the updating of the 2006 basket through the Survey of Key Informants was undertaken in March 2021. The survey was conducted nationwide to store managers, sellers or proprietors and were asked of the most commonly purchased items or commodities. The commodities are grouped according to the 2020 Philippine Classification of Individual Consumption According to Purpose (PCOICOP) which is based on the United Nations COICOP.

3. Determination of the Household Consumption Patterns (Weights)

This activity involves assigning weights to the commodity groups/subgroups. This reflects the consumption priorities of households and the way they allocate resources to meet their needs. Weight is a value attached to a commodity or group of commodities to indicate the relative importance of that commodity or group of commodities in the market basket.

The weights for the 2018-based CPI were derived from the expenditure data of the 2018 FIES, a survey that covered around 50,000 sample households nationwide. The weight for each item of expenditure is a proportion of that expenditure item to the total national expenditure. The total (all items) national expenditure weights is equal to 100. The 2018 FIES expenditure data were used to directly estimate the 2018 CPI weights at the national and regional levels. However, the 2012 FIES estimates for the expenditure data at the provincial level were not directly utilized in estimating the CPI expenditure weights as the data at the provincial/city level may not be reliable with the use of the households' master sample (MS) that was utilized in selecting the 2018 FIES sample households.

The MS was drawn using regions as domains in generating estimates in all the household surveys of the PSA starting July 2003. The provincial/city expenditure data were derived using the model-based



method in small area estimation procedures using the regional expenditure data as the control total for all the expenditure data within the specific region. Using these estimates, the weight for each item of expenditure is computed as a proportion of that item of expenditure to the total national expenditure. A raking procedure was done to adjust the weights of the provinces so that the provincial weights when added up will equal to the regional weights.

4. Monitoring of Prices of Items in the Market Basket

This involves establishing baseline information for prices of the items in the base year and monitoring the prices of the items on a regular basis. Collection of data for the CPI is done by the provincial staff of the PSA. Except for food, beverage and tobacco (FBT) in the National Capital Region (NCR) and petroleum products which are monitored on a weekly basis, price collection is generally done twice a month. First collection phase is done in the first five days of the month while the second phase is on the 15th to 17th day of the month. Data are collected from the sample outlets (outlets or establishments where prices of commodities/services are collected or quoted) which were chosen using the following criteria:

- a. Popularity of an establishment along the line of goods to be priced

 this means the sample outlet is publicly noted in the locality
 for selling goods included in the CPI market basket and the outlet
 is patronized by a large segment of the population.
- b. Consistency and completeness of stock

Consistency of stock – the outlet has a constant, steady or regular stock of commodities listed in the CPI price collection forms as well as of those commodities of the same kind and belonging to the same commodity group.

Completeness of stock – the sample outlet carries in its stock many if not all of the items included in the CPI price collection forms relative to the other outlets in the area.

- c. Permanency of outlet the outlet is an established store or stall in the market area. It should not be an ambulant or transient vendor in order that the collection of data can be done for the succeeding survey rounds.
- d. Geographical location the outlet is conveniently located and is accessible to the majority of consumers in the area.



5. Computation of the CPI

Below are the steps in the computation of CPI using the 2018 as the base year:

Step 1: Compute the monthly average price for each commodity.

Step 2: Compute the price relative (PR) for each commodity.

Step 3: Compute the index for the 5-digit group (Sub-Class).

Step 3.1: Compute the geometric mean of PRs for each 5-digit group.

$$\mathsf{GM}_{\mathsf{PR}} = \left(\prod_{i=1}^{\mathsf{n}} \mathsf{PR}_{i}\right)^{1/\mathsf{n}}$$

Where:

GM_{PR}= Geometric mean of price relatives
PR_i= Price relative of each commodity
n = number of commodities under the 5-digit group

Step 3.2: Compute the index for 5-digit group.

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\begin{split} I_{\text{5-digit,current month}} &= \left(GM_{PR}\right) * \left(I_{\text{5-digit,previous month}}\right) \\ \text{Where:} \\ &I_{\text{5-digit,current month}} = \text{Index of the 5-digit group (sub-class)} \\ & \text{for the current month} \\ &GM_{PR} = \text{Geometric mean of price relatives} \\ &I_{\text{5-digit,previous month}} = \text{Index of the 5-digit group (sub-class)} \\ & \text{for the previous month} \end{split}
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Step 4: Compute the index for the 4-digit group (Class).

$$I_{4-\text{digit}} = \frac{\sum_{i=1}^{n} (W_{(5-\text{digit})i}) (I_{(5-\text{digit})i})}{\sum_{i=1}^{n} (W_{(5-\text{digit})i})}$$

Where

 $I_{(4-\text{digit})}$ = index of the 4-digit group $W_{(5-\text{digit})i}$ = weight of 5-digit group $I_{(5-\text{digit})i}$ = index of the 5-digit group

Step 5: Compute the index for the 3-digit group (Group).

$$I_{3-\text{digit}} = \frac{\sum_{i=1}^{n} (W_{(4-\text{digit})i}) (I_{(4-\text{digit})i})}{\sum_{i=1}^{n} (W_{(4-\text{digit})i})}$$

Where:

 $I_{(3-\text{digit})}$ = index of the 3-digit group $W_{(4-\text{digit})i}$ = weight of the 4-digit group $I_{(4-\text{digit})i}$ = index of the 4-digit group

Step 6: Compute the index for the 2-digit group (Division).

$$I_{2-\text{digit}} = \frac{\sum_{i=1}^{n} (W_{(3-\text{digit})i}) (I_{(3-\text{digit})i})}{\sum_{i=1}^{n} (W_{(3-\text{digit})i})}$$

Where:

 $I_{(2\text{-digit})}$ = index of the 2-digit group $W_{(3\text{-digit})i}$ = weight of the 3-digit group $I_{(3\text{-digit})i}$ = index of the 3-digit group

Step 7: Compute the index for All Items.

$$I_{\text{all items}} = \frac{\sum_{i=1}^{n} (W_{(2-\text{digit})i}) (I_{(2-\text{digit})i})}{\sum_{i=1}^{n} (W_{(2-\text{digit})i})}$$

Where:

 $I_{\text{all items}}$ = index for All Items $W_{\text{(2-digit)i}}$ = weight of the 2-digit group (Division) $I_{\text{(2-digit)i}}$ = index of 2-digit group (Division)



Economic Indicators Derived from the CPI

Two important indicators, the inflation rate and purchasing power of the peso (PPP), are derived from the CPI which are important in monitoring price stability and the value of the country's currency.

Inflation Rate is the annual rate of change or the year-on-year change of the CPI expressed in percent. The formula is:

Inflation Rate =
$$\frac{CPI_2-CPI_1}{CPI_1} \times 100$$

Where: CPI_2 – is the CPI in the second period CPI_1 – is the CPI in the previous period

Headline Inflation is the rate of change in the weighted average prices of all goods and services in the CPI basket while **Core Inflation** refers to the rate of change in the CPI that excludes the following item/commodity groups: rice, corn, fruits and vegetables, and fuel items.

The **PPP** measures the real value of the peso in a given period relative to a chosen reference period. It is computed by getting the reciprocal of the CPI and multiplying the result by 100.

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