

# SPECIAL RELEASE

Summary Inflation Report of the Consumer Price Index in Ilocos Region: March 2022 (2018=100)

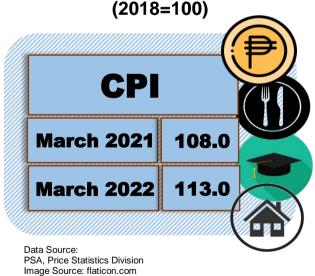
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#### **Consumer Price Index**

The Consumer Price Index (CPI) of the Ilocos Region in March 2022 was posted at 113.0. This means that one needs Php113.00 to purchase the same set of goods and services that worth Php100.00 in 2018.

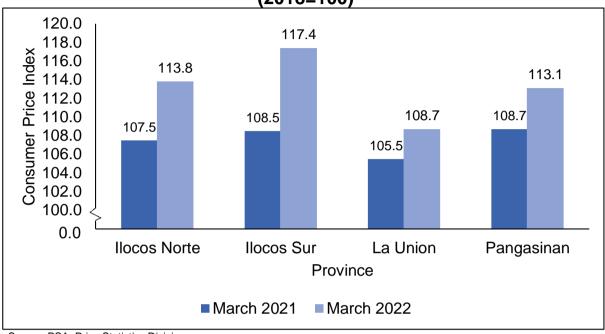
The region's CPI in March 2022 increased by 4.6 percent from 3.8 percent in March 2021.

Figure 1. Consumer Price Index, Ilocos Region March 2021 and March 2022



## **By Province**

Figure 2. Consumer Price Index by Province, Ilocos Region March 2021 and March 2022 (2018=100)



Source: PSA, Price Statistics Division

Among the provinces, Ilocos Sur posted the highest price index in March 2022 at 117.4. Ilocos Norte followed at 113.8 and Pangasinan at 113.1. Meanwhile, La Union recorded the lowest price index of 108.7 during the period.

Compared to the March 2021 levels, all provinces marked increases in price index. Ilocos Sur recorded the highest increase of 8.9 percentage points followed by Ilocos Norte with 6.3 percentage points, Pangasinan with 4.4 percentage points and La Union with 3.2 percentage points.

# **By Commodity Group**

The top three commodity groups that recorded high price indices in March 2022 were: financial services (146.0); alcoholic beverages and tobacco (140.4); and transport (122.0). On the other hand, the bottom three commodity groups with low price indices were: information and communication (100.8); furnishings, household equipment and routine maintenance of the house (107.2); and recreation, sport and culture (107.6).

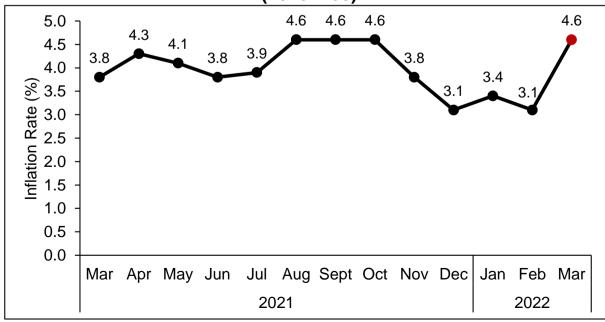
Table 1. Consumer Price Index by Commodity Group and Province, Ilocos Region: March 2022 (2018 = 100)

Commodity Group	Ilocos Region	llocos Norte	llocos Sur	La Union	Pangasinan
Food and Non-Alcoholic Beverages	112.5	112.9	113.1	109.8	113.0
Alcoholic Beverages and Tobacco	140.4	126.1	126.8	142.4	145.9
Clothing and Footwear	111.5	117.7	112.8	107.4	111.3
Housing, Water, Electricity, Gas and Other Fuels	114.5	120.4	121.7	105.7	113.9
Furnishings, Household Equipment and Routine Maintenance of the House	107.2	106.0	113.1	107.1	106.2
Health	112.0	112.1	118.3	107.9	111.7
Transport	122.0	119.6	130.6	115.6	122.5
Information and Communication	100.8	100.4	100.7	100.0	101.3
Recreation, Sport and Culture	107.6	104.6	104.5	105.5	110.2
Education Services	110.0	106.9	107.3	100.6	113.1
Restaurant and Accommodation Services	109.2	103.8	124.9	106.0	109.0
Financial Services	146.0	146.0	146.0	145.5	146.0
Personal Care and Miscellaneous Goods and Services	108.3	117.1	110.4	105.6	106.8

Source: PSA, Price Statistics Division

#### **Inflation Rate**

Figure 3. Headline Inflation Rates in Ilocos Region, All Items
March 2021 – March 2022
(2018=100)



Source: PSA, Price Statistics Division

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As shown in Figure 3, the inflation rate of Ilocos Region spiked from 3.1 percent in February 2022 to 4.6 percent in March 2022, registering an increase of 1.5 percentage points. Likewise, it is higher by 0.8 percentage point from the recorded rate of 3.8 percent in March 2021.

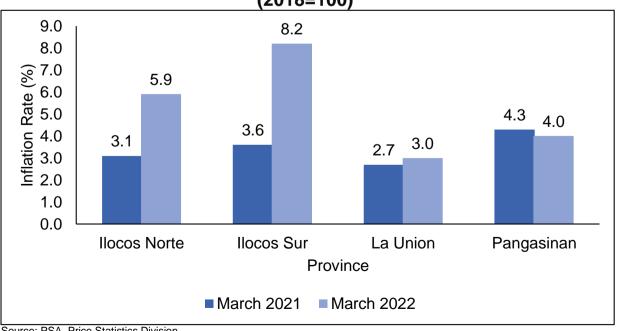
The highest inflation rate was recorded in the months of August, September, October of 2021 and March 2022 at 4.6 percent, Meanwhile. the lowest was noted in the months of December 2021 and February 2022 at 3.1 percent.

## **By Province**

Among the provinces, llocos Sur posted the highest inflation rate at 8.2 percent in March 2022, followed by Ilocos Norte and Pangasinan at 5.9 percent and 4.0 percent, respectively. Inflation rate in La Union was pegged at 3.0 percent.

Compared to their respective levels in March 2021, Pangasinan's inflation rate declined by 0.3 percentage point. On the other hand, Ilocos Sur have increased by 4.6 and llocos Norte percentage and 2.8 percentage points, respectively. Meanwhile, slight increase in the inflation rate of La Union was observed at 0.3 percentage point.

Figure 4. Headline Inflation Rates by Province, Ilocos Region March 2021 and March 2022 (2018=100)



Source: PSA, Price Statistics Division



## **By Commodity Group**

Table 2. Year-on-Year Inflation Rates for All Income Households by Commodity Group and by Province, Ilocos Region March 2022 (2018 = 100)

Commodity Group	Ilocos Region	llocos Norte	llocos Sur	La Union	Pangasinan	
Food and Non-Alcoholic Beverages	2.2	6.6	3.5	1.2	1.2	
Alcoholic Beverages and Tobacco	4.2	5.4	7.1	4.2	3.5	
Clothing and Footwear	3.0	3.0	4.9	0.3	3.6	
Housing, Water, Electricity, Gas and Other Fuels	9.5	6.4	14.2	6.4	10.0	
Furnishings, Household Equipment and Routine Maintenance of the House	3.7	1.0	8.7	1.4	3.9	
Health	4.2	4.9	9.3	2.3	3.2	
Transport	15.0	15.7	21.0	13.2	13.7	
Information and Communication	0.7	0.0	0.1	0.0	1.3	
Recreation, Sport and Culture	4.8	2.6	3.6	4.4	5.9	
Education Services	0.0	0.0	0.0	0.0	0.0	
Restaurant and Accommodation Services	1.3	0.0	8.6	0.3	0.8	
Financial Services	46.0	46.0	46.0	45.5	46.0	
Personal Care and Miscellaneous Goods and Services	2.8	2.7	4.5	1.2	2.8	

Source: PSA. Price Statistics Division

Among the commodity groups, financial services recorded the highest inflation rate with 46.0 percent. It was followed by the transport with 15.0 percent, and housing, water, electricity, gas and other fuels with 9.5 percent. Meanwhile, information and communication, and education services recorded the lowest inflation rate with 0.7 percent and 0.0 percent, respectively.

# **Purchasing Power of Peso**



The Purchasing Power of the Peso (PPP) in the Ilocos Region in March 2022 was posted at Php0.88. This means that the purchasing capability of Php1.00 in 2018 decreased by 12 centavos.

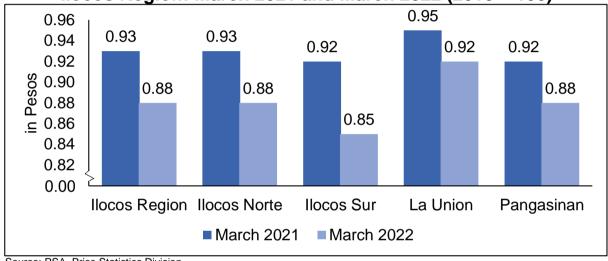
Among the provinces, La Union posted the highest PPP in March 2022 with Php0.92. It was followed by Pangasinan



and Ilocos Norte, both with Php0.88 PPP. Meanwhile, the least was recorded in Ilocos Sur at Php0.85.

It can be gleaned in Figure 5 that PPPs in all the provinces in March 2022 were lower than their respective levels in March 2021. Ilocos Sur recorded the highest decrease of Php0.07, followed by Ilocos Norte at Php0.05. Moreover, Pangasinan and La Union have decreased by Php0.04 and Php0.03, respectively.

Figure 5. Purchasing Power of the Peso by Province **Ilocos Region: March 2021 and March 2022 (2018 = 100)** 



Source: PSA, Price Statistics Division

Appendix. Consumer Price Index and Inflation Rate for All Income Households by Commodity, Ilocos Region March 2021 and March 2022 (2018=100)

(2010-100)						
Commodity Group	Inflation Rate		CPI			
	Mar 21	Mar 22	Mar 21	Mar 22		
ALL ITEMS		4.6	108.0	113.0		
FOOD AND NON-ALCOHOLIC BEVERAGES		2.2	110.1	112.5		
ALCOHOLIC BEVERAGES, TOBACCO AND OTHER VEGETABLE-						
BASED TOBACCO PRODUCTS		4.2	134.7	140.4		
CLOTHING AND FOOTWEAR		3.0	108.3	111.5		
HOUSING, WATER, ELECTRICITY, GAS AND OTHER FUELS		9.5	104.6	114.5		
FURNISHINGS, HOUSEHOLD EQUIPMENT AND ROUTINE						
HOUSEHOLD MAINTENANCE		3.7	103.4	107.2		
HEALTH	4.0	4.2	107.5	112.0		
TRANSPORT	9.6	15.0	106.1	122.0		
INFORMATION AND COMMUNICATION		0.7	100.1	100.8		
RECREATION, CULTURE AND CULTURE		4.8	102.7	107.6		
EDUCATION SERVICES	1.4	0.0	110.0	110.0		
RESTAURANTS AND ACCOMMODATION SERVICES		1.3	107.8	109.2		
FINANCIAL SERVICES		46.0	100.0	146.0		
PERSONAL CARE AND MISCELLANEOUS GOODS AND						
SERVICES	3.3	2.8	105.4	108.3		

Source: PSA, Price Statistics Division



#### **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 15<sup>th</sup> to 17<sup>th</sup> 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<sub>PR</sub>= Geometric mean of price relatives PR<sub>i</sub>= Price relative of each commodity n = number of commodities under the 5-digit group

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

$$\begin{split} I_{\text{5-digit,current month}} &= (GM_{PR}) * (I_{\text{5-digit,previous month}}) \\ \text{Where:} \\ &I_{\text{5-digit,current month}} = \text{Index of the 5-digit group (sub-class)} \\ & \text{for the current month} \\ &GM_{PR} = \text{Geometric mean of price relatives} \\ &I_{\text{5-digit,previous month}} = \text{Index of the 5-digit group (sub-class)} \\ & \text{for the previous month} \end{split}$$

## 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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