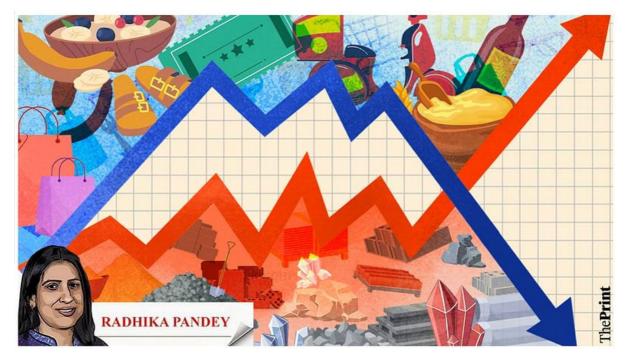
# Different baskets, weights, items measured — Why 2 inflation indexes are saying different things

Retail inflation went up from 5.7% in December to 6.5% in January, largely driven by food prices, while India's Wholesale Price Index based inflation fell to 2-year low of 4.73% in January.

#### **RADHIKA PANDEY**

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After moderating in the previous three months, inflation rate based on the Consumer Price Index (CPI) for January surpassed the upper threshold of the Reserve Bank of India's tolerance band. The increase in retail inflation from 5.7 per cent in December to 6.5 per cent in January was largely driven by food prices, particularly cereals. Inflation in cereals hit 16.1 per cent in January. Alongside, prices of protein-rich items such as milk eggs and meat led to food inflation soaring from 4.58 per cent to 6.19 per cent.

Core inflation continues to remain persistent at 6.2 per cent. Last week, the RBI's Monetary Policy Committee had <u>signaled</u> that more rate hikes may be needed to break the persistence of core inflation. With the surge in January CPI inflation, the RBI's forecast of 5.7 per cent for the January-March quarter could face an upside risk.

In contrast, the Wholesale Price Index (WPI) based inflation fell to a two-year low of 4.73 per cent in January. This is the fourth consecutive month of WPI inflation remaining in single digits, after 18 consecutive months of double-digit inflation. The decline in inflation was primarily driven by softening of prices in fuel and manufactured products. Inflation in manufactured products which constitute more than 64 per cent of the WPI basket, moderated from 3.37 per cent in December to 2.99 per cent in January.

Inflation in food articles saw an increase from -1.25 per cent in December to 2.38 per cent in January. Rise in food prices will have a relatively greater impact on CPI than the WPI because of the weights. Food has an overall weightage of roughly 25 per cent in the WPI basket while in the CPI basket, food occupies a weightage of 46 per cent.

### STATES: RURAL AND URBAN WEIGHTAGE IN CONSUMER PRICE INDEX

States/UTs	Percent share	
	Rural	Urban
Bihar	85.40	14.60
Himachal Pradesh	81.87	18.13
Assam	79.41	20.59
Tripura	74.18	25.82
Arunachal Pradesh	73.68	26.32
Odisha	72.05	27.95
Meghalaya	68.96	31.04
Manipur	68.36	31.64
Sikkim	67.39	32.61
Kerala	64.68	35.32
Rajasthan	64.37	35.63
Uttar Pradesh	64.15	35.85
Andhra Pradesh	63.08	36.92
Uttarakhand	62.69	37.31
Jharkhand	61.84	38.16
Chhattisgarh	61.29	38.71
Madhya Pradesh	58.81	41.19
Nagaland	57.49	42.51
All India	53.52	46.48
Punjab	55.24	44.76
Haryana	53.13	46.87
West Bengal	52.80	47.20
Karnataka	46.24	53.76
Telangana	45.16	54.84
Gujarat	43.38	56.62
Tamil Nadu	41.01	58.99
Mizoram	38.98	61.02
Goa	38.72	61.28
Maharashtra	33.50	66.50
Delhi	5.36	94.64

Source: Ministry of Statistics and Programme Implementation



#### Commodity composition of CPI and WPI

A key reason for the divergence between CPI and WPI based inflation stems from the difference in the basket of items and their weightages. While the overall CPI represents the cost of a representative basket of goods and services consumed by an average urban or rural household, the WPI captures all transactions at first point of bulk sale in the domestic market.

Since the two indices capture prices at different stages, their composition varies. The basket of items and their weightages in the CPI series are derived on the basis of <u>average monthly consumer expenditure</u> of an Indian household obtained from the Consumer Expenditure Survey (CES). The CES is traditionally a quinquennial (recurring every five years) survey conducted by the government's National Sample Survey Office (NSSO). The survey is designed to collect information on the consumer spending patterns of households across the country, both urban and rural. Currently, the basket is based on the <u>68th round of the CES</u> with reference period of July 2011 to June 2012.

The CSO prepares the CPI basket of items and their weightages using the Modified Mixed Reference Period (MMRP). Under this method, for food items and certain other items, data on expenditures incurred are collected during the last seven days. For durable goods, clothing, and footwear, data on expenditure incurred are collected during the last 365 days. For certain other items such as fuel and light, miscellaneous goods and services, the reference period is 30 days. This method is understood to give a more accurate reflection of consumption patterns.

Group & sub-group	Rural	Urban	Combined
Food and beverages	54.18	36.29	45.86
Cereals and products	12.35	6.59	9.67
Meat and fish	4.38	2.73	3.61
Egg	0.49	0.36	0.43
Milk and products	7.72	5.33	6.61
Oils and fats	4.21	2.81	3.56
Fruits	2.88	2.9	2.89
Vegetables	7.46	4.41	6.04
Pulses and products	2.95	1.73	2.38
Sugar and confectionery	1.7	0.97	1.36
Spices	3.11	1.79	2.5
Non-alcoholic beverages	1.37	1.13	1.26
Prepared meals, snacks, sweets etc.	5.56	5.54	5.55
Pan, tobacco and intoxicants	3.26	1.36	2.38
Clothing and footwear	7.36	5.57	6.53
Clothing	6.32	4.72	5.58
Footwear	1.04	0.85	0.95
Housing		21.67	10.07
Fuel and light	7.94	5.58	6.84
Miscellaneous	27.26	29.53	28.32
Household goods and services	3.75	3.87	3.8
Health	6.83	4.81	5.89
Transport and communication	7.6	9.73	8.59
Recreation and amusement	1.37	2.04	1.68
Education	3.46	5.62	4.46
Personal care and effects	4.25	3.47	3.89

Weightages given to commodities covered in the WPI basket are based on the value of output in the base year adjusted for net imports. The WPI basket has three broad components — primary articles with a weightage of 22.62, fuel and power with a weightage of 13.15 and manufactured products having the biggest share at 64.23.

COMPOSITION OF WEIGHTS OF WPI			
Cycums	Weight		
Groups	2011-12	2004-05	
All commodities	100	100	
Primary articles	22.62	20.12	
Fuel & power	13.15	14.91	
Manufactured products	64.23	64.97	
Source: Office of Economic Adviser, Department for Promotion of Industry and Internal Trade			

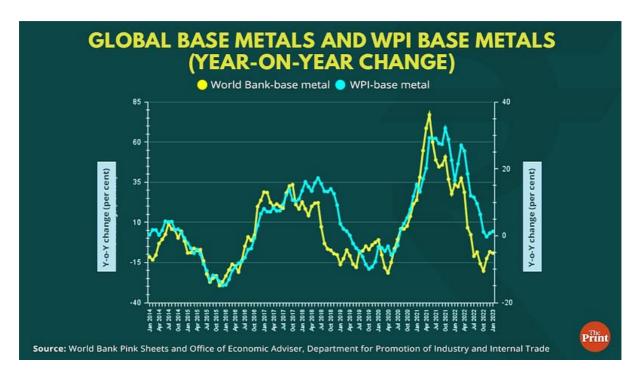
## Recent rise in services inflation is not captured in WPI

Another driver of retail inflation in recent months has been an increase in the prices of services such as health, education and personal care and effects. These are prominent components of the CPI basket, but are not covered under the WPI. In fact, services have a combined weightage of roughly 24 per cent in the overall CPI basket. When prices of services inch up they are captured in CPI, but not in WPI.

### Recent moderation in global commodity prices impacts WPI

WPI item basket includes manufacturing inputs and intermediate goods like minerals, basic metals, machinery etc., whose prices are influenced by global factors, but these are not directly consumed by the households. Trade integration coupled with the liberalisation of administered prices has turned a growing fraction of the WPI basket into tradeable goods, whose prices are determined in international markets. Thus, WPI tends to move in tandem with global prices. As

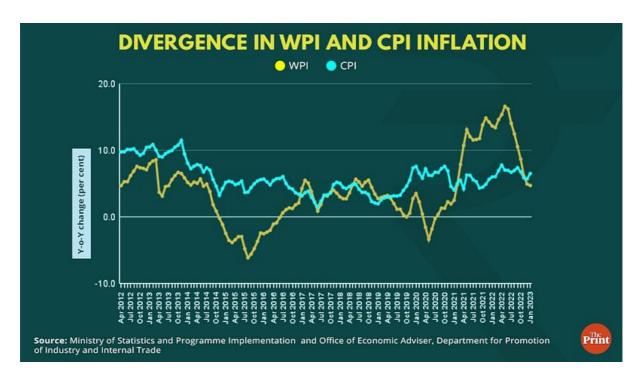
an example, the surge in global metal prices was reflected in WPI base metal prices. The moderation in global metal prices also led to a moderation in WPI metals inflation.



Monetary policy has no control over fluctuations in global prices of tradeables. CPI's basket is relevant for a typical Indian household. It has a large share of non-tradeables including services whose prices can be influenced by domestic monetary policy actions. Hence CPI is considered an appropriate index for inflation targeting.

### Periods of divergence between WPI and CPI

Over the past ten years, there have been three distinct phases where there has been a stark divergence between WPI and CPI — October 2014-October 2016, June 2019—January 2021 and March 2021-October 2022. The first two episodes saw CPI more than WPI inflation rate, while the third recorded higher WPI than CPI.



The first period covering 2015 and 2016 saw deflation in WPI. This was mainly owing to a sharp fall in global crude oil prices.

Between June 2019 and February 2021, wholesale inflation was sluggish and lower than retail inflation. Due to the disruptions caused by the Covid-19 pandemic, production activity remained muted and global crude oil prices plummeted. As economic activity picked up in 2021-22, and global crude oil prices surged higher, WPI based inflation started to rise. In contrast, CPI inflation remained elevated during 2020 owing to supply chain bottlenecks and high food prices.

From March 2021, WPI inflation galloped owing to a lower base and rise in global crude and commodity prices. The trajectory in WPI is influenced by movements in the global crude oil prices. The two series have a strong correlation of almost 0.8.

Radhika Pandey is Senior Fellow at National Institute of Public Finance and Policy.