BHARAT SCHOOL OF BANKING PRICE INDICES - PPI, WPI, CPI

Measurement of Inflation

Price indices are used to measure the **relative price changes** (of **goods** and **services**) in a region (generally a **country**) during a specific **period** of time (e.g., **financial year**, or **quarter**, or **month**).

With the price indices, we comprehend about how much the **price** of **goods and services** has **increased** (**Inflation**) or **decreased** (**Deflation**) from a fixed normal year, known as **base year** (with respect to this **base year**, we calculate how much increase or decrease in prices happened in this **current year**).

Price indices are generally used to measure the **cost of living** in order to determine the **wage increases** necessary to maintain a **constant standard** of living.

Price Indices

Goods and **services** are provided to the **consumer** by the **producer**. It follows several **stages / levels** in between -

- producer level (produced, or manufactured) PPI
- wholesale level (at wholesale market, before going to the retail market) WPI
- retail / consumer level (at retail market, from where consumers buy) CPI

Wholesale Price Index (WPI)

WPI is used to track **prices** of **goods** at the **wholesale** stage (meaning goods sold in **bulk**, rather that **retailed**), and traded between **organizations**, before going to **consumers**.

It is **practically impossible** to find **price changes** of **all** the **goods** traded in an **economy** (millions of goods!). So it is logical to take a **sample** set, or **'basket of goods'** (e.g., **676 commodities**, or **goods**) to measure the **inflation** (few important goods taken for measuring price changes).

Then determine a **base year** (e.g., **2004-05**, **2010-11**), with respect to which the **current inflation** will be measured. WPI indicator tracks the **price movement** of **each commodity individually**, and then determine through the **averaging** principle (Methods like **Laspeyres formula**, **Ten-day Price Index**, etc. are used)

Note that **all commodities** are classified into **3 groups**, and then their **weighted average** is taken for measuring WPI -

- Primary Articles (e.g., food, non-food, mineral, etc.) 20.1 % of total weight
- Fuel & Power (Coal, Mineral Oil, Electricity, etc.) 14.9 % of total weight
- Manufactured Articles (food products, beverages, woods, paper, chemicals, machinery, transport, etc.)
 - 65 % of total weight

Indian wholesale prices increased by 0.11 % in December 2014 after being flat (0 %) in November 2014.

Consumer Price Index (CPI)

BHARAT SCHOOL OF BANKING PRICE INDICES - PPI, WPI, CPI

While WPI is calculated in **wholesale** stage, **CPI** is determined at **retail** stage, where **consumers** are directly involved. Hence, CPI method better measures the **effect** of **inflation** on **general public**. RBI adopted **CPI** as the key measure for determining **Inflation** situation of **economy**, on recommendation of **Urjit Patel committee**.

CPI measures **changes** in **prices**, **paid** by **consumers** for a **basket of goods** (similar to **WPI**, but here **retail goods**, instead of **wholesale goods**).

There are 3 broad types of CPIs - (for different type of consumers; new CPI system of 2012)

- CPI for Urban population, known as CPI (Urban)
- CPI for Rural population, known as CPI (Rural)
- Consolidated CPI for Urban and Rural, which is based on CPI (Urban) and CPI (Rural) key measure for CPI

CPI in India decreased to 144.90 Index Points in December 2014 from 145.50 in November.

Producer Price Index (PPI)

PPI is used to track pure **price changes** at **producer level** for **goods** as well as **services**. **PPI prices** of many **products** and some **services** are determined form **first commercial transaction**. Note that in contrast to **WPI**, **PPI** doesn't contain **tax** components, keeping **inflation** free of **tax fluctuations**.

The government of India has set up (Sep, 2014) a committee (13 members), headed by Professor B.N.Goldar, to devise PPI for Indian economy. It is an international standard, which is followed by major economies (e.g., USA) of the world.

Why devising PPI in India?

- Currently, there is no index tracking inflation in service sector, that contributes about 55 % to India's GDP (note that WPI doesn't track services sector in India)
- PPI tracks **inflation** excluding **tax components**. It will help to track actual **change** in **prices** (note that WPI, CPI, both includes **tax** components)

Disclaimer - This article only gives a **basic idea**, just for **learning** purpose. No figure or content mentioned here to be considered as accurate.