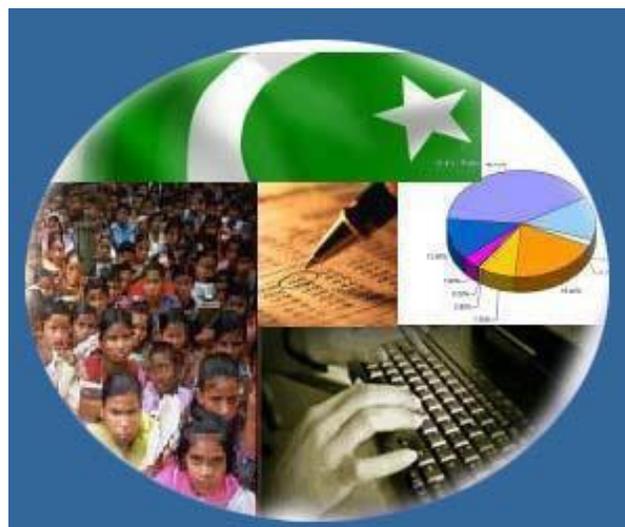




Monthly Review on Price Indices



May, 2010

**Government of Pakistan
Statistics Division
Federal Bureau of Statistics**

PREFACE

The Federal Bureau of Statistics regularly collects price statistics resulting in the monthly release of Consumer Price Index (CPI), Wholesale Price Index (WPI) and Sensitive Price Indicator (SPI) on weekly basis. The CPI is the most relevant tool of measuring inflation of consumer goods. The SPI highlights the price movements of 53 essential items of daily use at short interval of time. WPI is designed to measure the price movements at wholesale level. This monthly report provides data on all three indices along with short description of the main findings and with explanation of concepts, methods and items. This report can also be downloaded from the website of FBS.

www.statpak.gov.pk .

Views/suggestions/comments are welcome which would contribute to further improvement.

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STRUCTURE

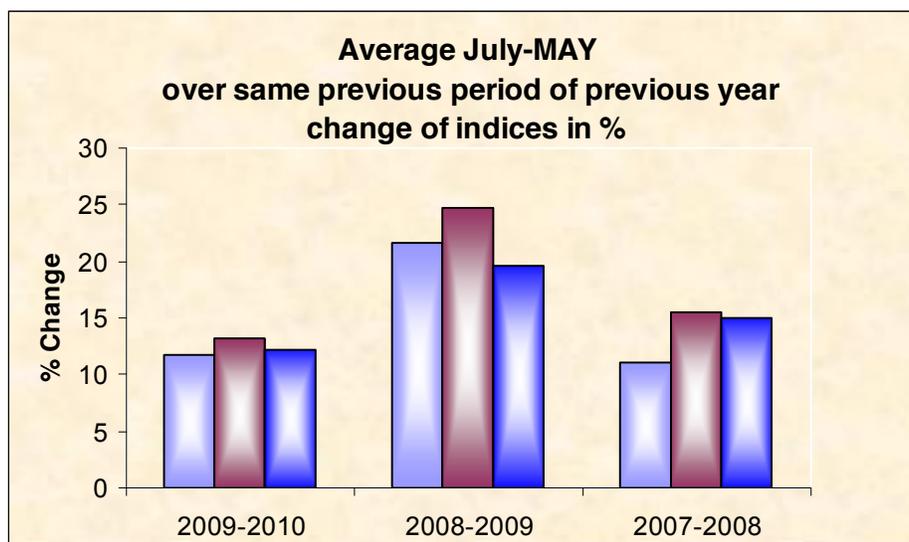
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1. ALL THREE INDICES AT A GLANCE

Average July –May over same period of previous year Change of indices in %

| Index | 2009-2010 | 2008-2009 | 2007-2008 |
|-------|-----------|-----------|-----------|
| CPI | 11.64 | 21.55 | 11.11 |
| SPI | 13.17 | 24.75 | 15.56 |
| WPI | 12.16 | 19.69 | 15.06 |

The inflation rates based on CPI, SPI & WPI in 2009-10 increased by 11.64%, 13.17% and 12.16% over 2008-09 respectively. CPI, SPI and WPI in 2008-09 increased by 21.55%, 24.75% and 19.69% respectively over 2007-08 and in 2007-08 the CPI, SPI and WPI increased by 11.11%, 15.56% and 15.06% respectively over 2006-07. An analysis of data for three years for the same period indicates that SPI & WPI in 2009-10 were lower as compared to last two years but CPI was higher in 2009-10 as compared to 2007-08.

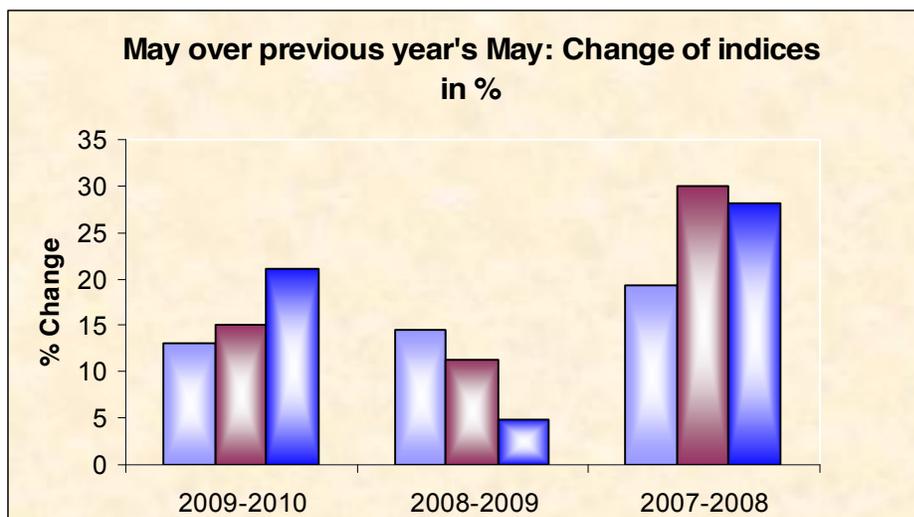


May over corresponding month of previous year Change of indices in %

| Index | 2009-2010 | 2008-2009 | 2007-2008 |
|-------|-----------|-----------|-----------|
| CPI | 13.07 | 14.39 | 19.27 |
| SPI | 15.18 | 11.24 | 29.92 |
| WPI | 21.21 | 4.73 | 28.24 |

The inflation rates based on CPI, SPI & WPI in May, 2010 increased by 13.07%, 15.18% and 21.21% over May, 2010 respectively. CPI, SPI and WPI in May, 2009 increased by 14.39%, 11.24% and 4.73% respectively over May, 2009 and in May, 2008 the CPI, SPI and WPI increased by 19.27%, 29.92% and 28.24% respectively over May, 2008. An analysis of data for three years for the same period

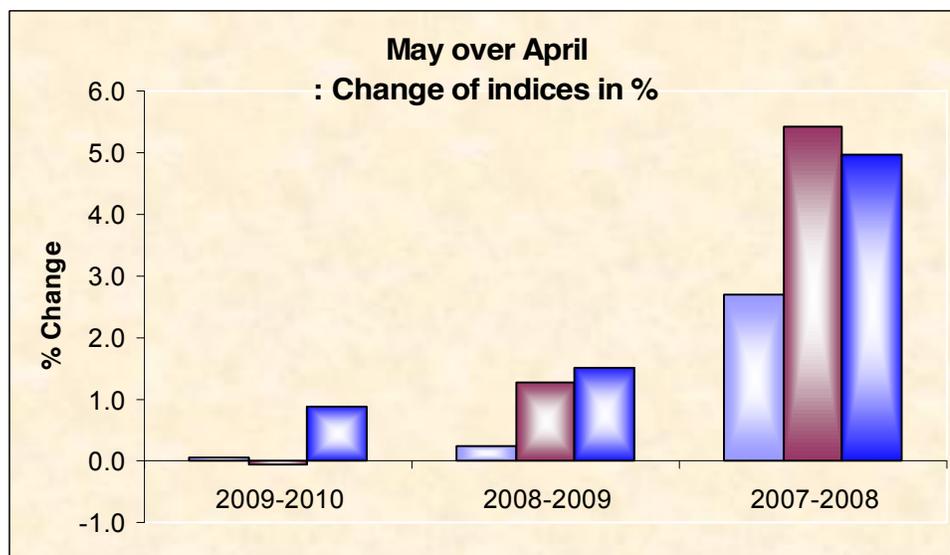
indicates that SPI & WPI in May, 2010 were higher as compared to May, 2009 but lower as compared to May, 2008, while CPI was lower as compared to last two years.



May over previous month: change of indices in %

| Index | 2009-2010 | 2008-2009 | 2007-2008 |
|-------|-----------|-----------|-----------|
| CPI | 0.06 | 0.23 | 2.69 |
| SPI | -0.06 | 1.27 | 5.41 |
| WPI | 0.87 | 1.52 | 4.97 |

The inflation rates based on CPI, & WPI in May, 2010 increased by 0.06% & 0.87% while SPI decreased by 0.06% over April, 2010 respectively. During May, 2009 CPI, SPI & WPI increased by 0.23%, 1.27% and 1.52% over April, 2009 and CPI, SPI & WPI in May, 2008 increased by 2.69%, 5.41% & 4.97% over April, 2008 respectively.



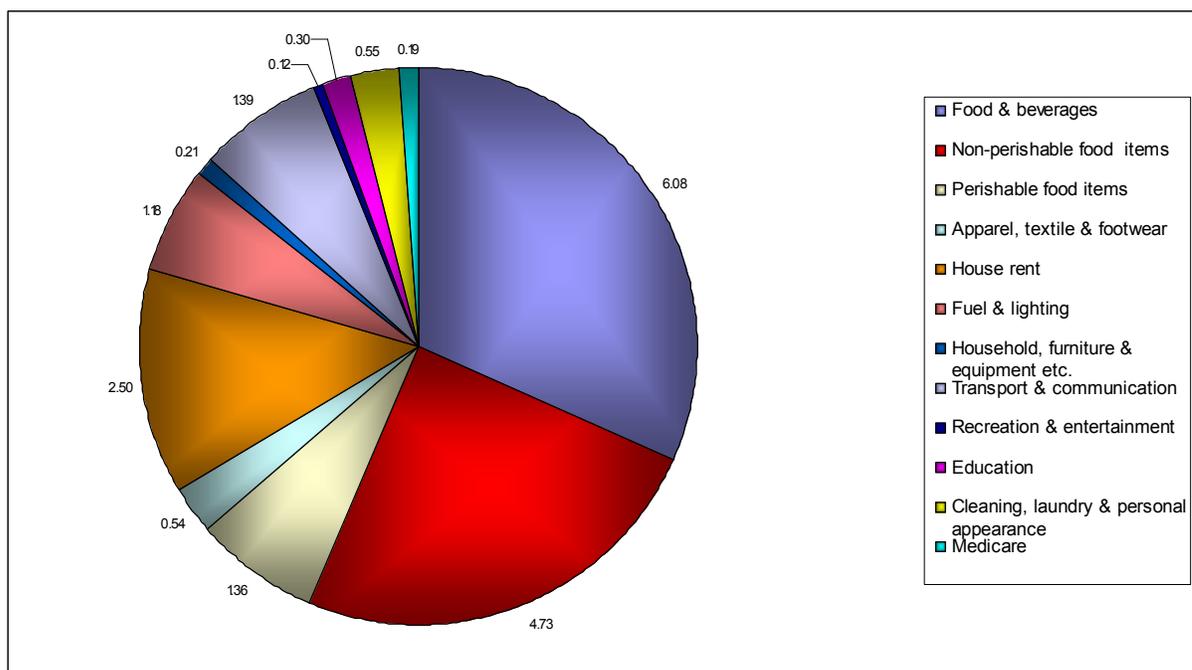
2. CONSUMER PRICE INDEX

The Consumer Price Index of May, 2010 has increased by 0.06% over April, 2010, and 13.07% over corresponding month of last year.

Consumer Price Index by Groups of Commodities and Services (2000-01= 100)

| Groups | Group Weight in % | Indices | | | Change May, 2010 over ... | | | |
|---|-------------------|---------------|---------------|---------------|---------------------------|--------------|-----------------------------------|-------------|
| | | May-10 | Apr-10 | May-09 | Apr-10 | May-09 | Apr-10 | May-09 |
| | | | | | ... in % | | ... in percentage points (impact) | |
| General | 100.00 | 223.58 | 223.44 | 197.74 | 0.06 | 13.07 | 0.06 | 13.07 |
| Food & beverages | 40.34 | 252.62 | 252.53 | 220.04 | 0.04 | 14.81 | 0.01 | 6.08 |
| <i>Non-perishable food items</i> | 35.20 | 252.44 | 251.68 | 222.79 | 0.30 | 13.31 | 0.05 | 4.73 |
| <i>Perishable food items</i> | 5.14 | 253.90 | 258.37 | 201.19 | -1.73 | 26.20 | -0.04 | 1.35 |
| Apparel, textile & footwear | 6.10 | 169.75 | 167.51 | 156.09 | 1.34 | 8.75 | 0.05 | 0.54 |
| House rent | 23.43 | 212.37 | 211.25 | 192.23 | 0.53 | 10.48 | 0.07 | 2.50 |
| Fuel & lighting | 7.29 | 240.78 | 242.79 | 207.85 | -0.83 | 15.84 | -0.03 | 1.18 |
| Household, furniture & equipment etc. | 3.29 | 174.72 | 173.31 | 164.49 | 0.81 | 6.22 | 0.02 | 0.21 |
| Transport & communication | 7.32 | 219.79 | 224.60 | 185.24 | -2.14 | 18.65 | -0.09 | 1.39 |
| Recreation & entertainment | 0.83 | 139.17 | 139.17 | 121.53 | 0.00 | 14.51 | 0.00 | 0.12 |
| Education | 3.45 | 193.18 | 191.30 | 178.21 | 0.98 | 8.40 | 0.02 | 0.30 |
| Cleaning, laundry & personal appearance | 5.88 | 186.02 | 185.00 | 170.35 | 0.55 | 9.20 | 0.02 | 0.55 |
| Medicare | 2.07 | 164.47 | 163.25 | 150.63 | 0.75 | 9.19 | 0.01 | 0.19 |

Group impact on the change May 2010 over May 2009 in percentage points (total: 13.26)



The pie chart shows the impact as given in the table above. The impact is the product of weight and price change of the group and is measured in percentage points. By its very nature, the pie chart fails to show lowest impacts. Commodity groups with lowest impact, if any, are shown aggregated with others like in present situation the impact shown by Recreation & entertainment showing impact of 0.12.

The main commodities, which showed an **increase** in their prices during May, 2010 over April, 2010 are as under:-

Food & beverages:- Potatoes (22.95%), eggs (11.64%), jam, tomato, pickles & vinegar (6.82%), pulse mash (5.45%), beverages (5.19%), milk fresh (3.78%), milk powder (3.34%), fresh fruits (3.11%), pulse moong (2.98%), meat (2.62%), honey (2.36%), milk products (2.13%) & dry fruits (0.92%).

Apparel, textile & footwear:- Cotton cloth (2.48%), silk, linen & woolen cloth (2.13%), tailoring charges (1.68%) & hosiery (0.93%).

Household, furniture & equipment etc:- Suitcase (1.66%), household equipment (1.23%), plastic products & furnishing (1.08% each).

Transport & communication:- Service charges (1.54%) & tyre & tube (1.07%).

Education:- Stationery (1.40%) & Tuition fees (1.26%).

Cleaning laundry & personal appearance:- Jewellery (2.68%).

The main commodities, which showed a **decrease** in their prices during May, 2010 over April, 2010 are as under:-

Food & beverages:- Onions (20.32%), tomatoes (7.07%), wheat flour (4.77%), chicken farm (4.66%), maida (2.76%), gram whole (2.64%), wheat (2.50%), vegetables (2.34%) & sugar (0.87%).

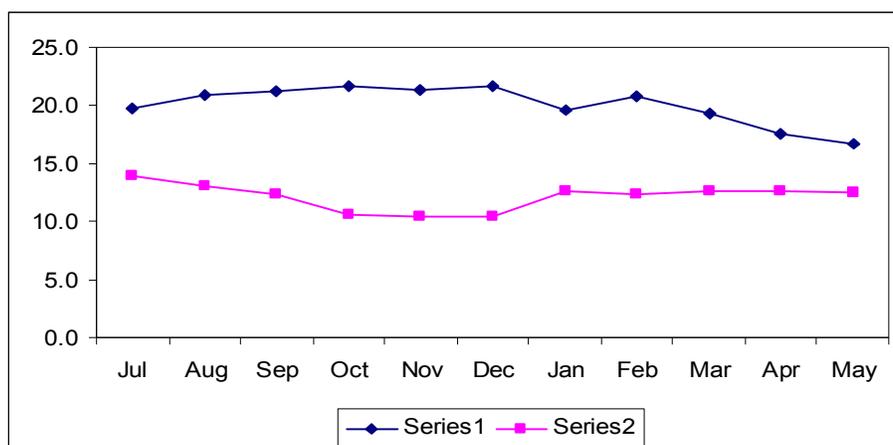
Fuel & lighting:- Kerosene (4.27%) & natural gas/ LPG (1.88%).

Transport & communication:- Petrol (7.96%) & diesel (1.41%)

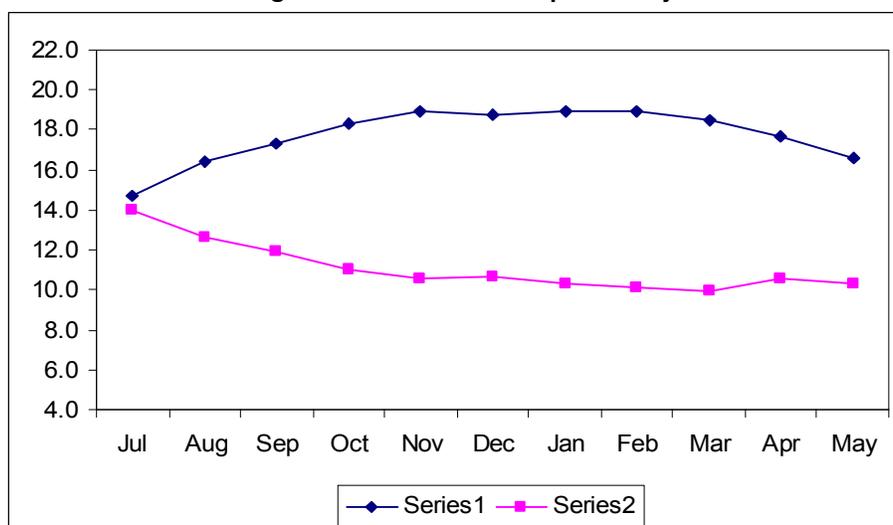
Core inflation of CPI: change over same month of previous year in %

| Months | Trimmed core inflation | | Non-food & non-energy core Inflation | |
|--------|------------------------|---------|--------------------------------------|---------|
| | 2008-09 | 2009-10 | 2008-09 | 2009-10 |
| Jul | 19.7 | 13.9 | 14.7 | 14.0 |
| Aug | 21.0 | 13.1 | 16.4 | 12.6 |
| Sep | 21.2 | 12.3 | 17.3 | 11.9 |
| Oct | 21.7 | 10.6 | 18.3 | 11.0 |
| Nov | 21.3 | 10.5 | 18.9 | 10.6 |
| Dec | 21.6 | 10.4 | 18.8 | 10.7 |
| Jan | 19.6 | 12.7 | 18.9 | 10.3 |
| Feb | 20.8 | 12.4 | 18.9 | 10.1 |
| Mar | 19.3 | 12.7 | 18.5 | 9.9 |
| Apr | 17.6 | 12.7 | 17.7 | 10.6 |
| May | 16.7 | 12.5 | 16.6 | 10.3 |

**Trimmed Core Inflation Index of CPI 2009-10 and 2008-09:
change over same month of previous year in %**



**Core Inflation Index Non-Food & Non-Energy of CPI 2009-10 and 2008-09:
Change over same month of previous year in %**



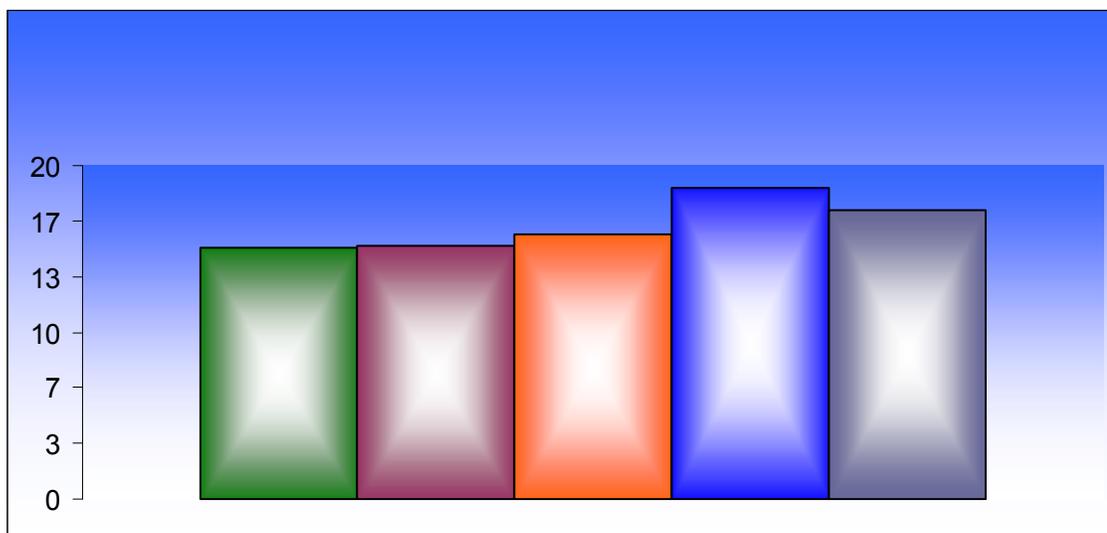
3. SENSITIVE PRICE INDICATOR

The average SPI of May, 2010 decreased at 0.06% over April, 2010 for the lowest income group, while it increased by 0.81% in case of all income groups combined.

Sensitive Price Indicator (2000-01= 100)

| <u>INCOME GROUP</u> | Average of month | | | %change May, 2010 over | |
|---------------------|------------------|---------|---------|------------------------|---------|
| | May, 10 | Apr, 10 | May, 09 | Apr, 10 | May, 09 |
| I Lowest | 256.78 | 256.94 | 222.94 | -0.06 | 15.18 |
| II Lowest but one | 254.90 | 255.08 | 221.20 | -0.07 | 15.24 |
| III Highest but one | 253.61 | 253.00 | 218.79 | 0.24 | 15.91 |
| IV Highest | 250.68 | 247.23 | 211.21 | 1.40 | 18.69 |
| V (COMBINED) | 249.51 | 247.50 | 212.62 | 0.81 | 17.35 |

% Change in SPI May, 2010 over May, 2009 per Income Group



Statement showing city wise average retail prices of 53 essential items being covered in SPI is placed at Appendix-A.

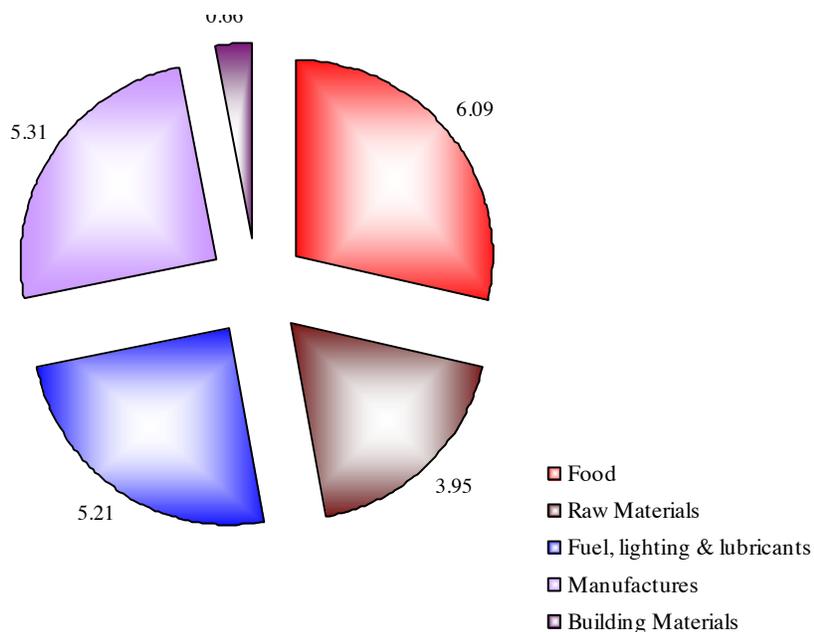
4. WHOLESALE PRICE INDEX

The wholesale price index of May, 2010 increased by 0.87% over April, 2010, it increased by 21.21% over the corresponding month of last year, as in the following table.

Wholesale Price Index by Commodity Groups (2000-01=100)

| Groups | Group Weight in % | Indices | | | Change May, 2010 over ... | | | |
|-----------------------------|-------------------|---------|---------|---------|---------------------------|---------|-----------------------------------|---------|
| | | May, 10 | Apr, 10 | May, 09 | Apr, 10 | May, 09 | Apr, 10 | May, 09 |
| | | | | | ... in % | | ... in percentage points (impact) | |
| General | 100.00 | 243.98 | 241.88 | 201.29 | 0.87 | 21.21 | 0.87 | 21.21 |
| Food | 42.12 | 248.81 | 248.53 | 217.5 | 0.11 | 14.4 | 0.04 | 6.09 |
| Raw Materials | 7.99 | 295.35 | 285.83 | 197.9 | 3.33 | 49.24 | 0.20 | 3.95 |
| Fuel, lighting & lubricants | 19.29 | 316.79 | 318.67 | 249.6 | -0.59 | 26.92 | -0.09 | 5.21 |
| Manufactures | 25.87 | 170.15 | 164.72 | 141.25 | 3.3 | 20.46 | 0.65 | 5.31 |
| Building Materials | 4.73 | 221.07 | 217.18 | 194.06 | 1.79 | 13.92 | 0.06 | 0.66 |

WPI-group impact on the change May 2010 over May 2009 in percentage points (in total: 21.21)



The main commodities which showed an increase in their prices in May, 2010 over April, 2010 are as under:-

Food:. Potatoes (21.00%), jowar (17.37%), eggs (11.88%), bajra (8.28%), moong (7.89%), fruit prepared/preserved (6.60%), mash (4.92%), gur (4.20%) spices (3.79%), fresh fruits (3.52%), maize (3.04%), beans (2.43%), oil cakes (2.32%), milk food (2.21%), fresh milk (2.13%), vegetable prepared/preserved (1.87%), condiments (1.09%) & meat (1.02%).

Raw materials:- Cotton (8.12%), hides (2.67%), wool (2.58%) & tobacco (1.27%).

Fuel, lighting & lubricants:- Coke (9.09%) & furnace oil (2.64%).

Manufactures: Cotton yarn (9.75%), machinery (3.55%), nylon yarn (2.96%), blended yarn (2.81%), chemicals (2.73%), plastic products & tubes (2.35% each), cotton textiles (2.12%), silk & rayon (1.64%), other electric goods (1.49%), hosiery (1.32%), fertilizers (1.25%) & jute manufactures (1.06%)

Building materials:- Timber (3.95%) & Iron bars & sheets (2.46%).

The main commodities which showed a decrease in their prices in May, 2010 over April, 2010 are as under:

Food: Onions (9.73%), wheat flour (5.14%), rice (4.25%), wheat (3.94%), maida (3.42%), vegetables (2.40%), chicken (2.12%), cooking oil (1.53%) & gram whole (1.43%).

Raw materials:- Sugarcane (2.94%) and mustard/rapeseeds (1.50%).

Fuel, lighting & lubricants:- Motor spirit oil (8.05%), kerosene (4.95%) & diesel (3.21%).

5. CONCEPTS AND METHODS

When prices of most goods and services are rising over time, the economy is said to experience inflation. The percentage increase in the average level of prices over a year is called the inflation rate. Inflation can impose high cost on economies and societies, can disproportionately hurt the poor and fixed income groups, can create uncertainty throughout the economy and can undermine macro economic stability.

Different price indices are used to measure inflation. A price index is a measure of the aggregate price level relative to a chosen base year. In Pakistan a consumer price index (CPI), a sensitive price indicator¹ (SPI) and a wholesale price index (WPI) are compiled. They commonly have the base year 2000-01.

CPI is a main measure of price changes at retail level. It indicates the cost of purchasing a representative fixed basket of goods and services consumed by private households. In Pakistan CPI covers the retail prices of 374 items in 35 major cities² and reflects roughly the changes in the cost of living of urban areas.

SPI shows the weekly change of price of selected 53 items of daily use consumed by those households whose monthly income in the base year 2000-01 ranged from Rs.3000 to above Rs.12000 per month. SPI also informs about the actual position of supply: whether the commodity is available in market or not. If the commodity is not available, the reason for that is also recorded. SPI is based on the prices prevailing in 17 major cities and is computed for the basket of commodities being consumed by the households belonging to all income groups combined as in CPI.

WPI is designed for those items which are mostly consumable in daily life on the primary and secondary level; these prices are collected from wholesale markets and also from mills at organized wholesale market level. The WPI covers the wholesale price of 106 commodities prevailing in 18 major cities of Pakistan. Through its own staff and voluntary co-operation of government departments, autonomous bodies and private agencies FBS receives the wholesale prices from various areas in Pakistan. The prices are usually reported on monthly basis. WPI covers 425 items, divided in five major commodity groups viz (i) Food, (ii) Raw material, (iii) Fuel, Lighting and Lubricants, (iv) Manufacturing, (v) Building material. So, for many of the commodities more than one specification and markets have been used to have average prices.

¹ In SPI the term "indicator" is used as the number of commodities and the number of cities of price collection is much lower than in the "index" of CPI or WPI. Technically there is no difference between the "indicator" as used here and an index.

² At first 52 cities were proposed for the computation of CPI but finally 35 cities have been selected after availability of the results of Family Budget Survey. Only urban cities have been proposed because of unavailability of the results of survey, items are not being marketed in rural cities and price trend of consumer goods & services remained more or less the same in small rural cities.

Hence, all three indices are needed to quantify inflation for the economy as a whole. In Pakistan as well as in most countries, the main focus for assessing inflationary trends is placed on the CPI, because it closely represents the changes in the cost of living.

Price Indices in Pakistan with common base year 2000-01

| Features | CPI | SPI | WPI |
|---|------------|---|------------|
| Cities covered | 35 | 17 | 18 |
| Markets covered | 71 | 53 | 18 |
| Items covered | 374 | 53 | 425 |
| Commodities covered | 92 | - | 106 |
| No. of commodity groups | 10 | - | 5 |
| No. of price quotations | 106,216 | 11236 | 1,550 |
| Reporting Frequency | Monthly | Weekly | Monthly |
| Income Groups (in base year) with separate basket | Four | One (Rs. 3,000 up to above Rs. 12,000 / month) | - |

FBS has been collecting retail and wholesale prices, as well as, computing CPI and other price indices since its establishment in 1950. Initially, CPI was computed with base 1948-49 for baskets of industrial workers in the cities of Lahore, Karachi and Sialkot. Continuous efforts have been made, since then, to make it more representative by improving and expanding its scope and coverage in terms of items, category of employees, i.e. target population, cities and markets. But the current CPI series can not fully reflect the recent composition of household expenditures, so it becomes the need of hour to change the base, improve methodology and capture the latest pattern of consumption of people. Therefore, CPI series were computed with 1959-60, 1969-70, 1975-76 and 1980-81 as base year.

It was decided by the Government to monitor the price situation of essential commodities at short interval of time. Therefore, the first series of SPI was started during 1971-72 with base 1969-70. Initially it was being computed only for low income group to measure the effect of price fluctuation of consumers belonging to this income group for the prices of 46 essential items to be collected from 12 major cities. For the current series of SPI with base 2000-01, it comprises of 53 essential items for which the prices are being collected from 17 urban centres of the country for 4 income groups. This indicator is very helpful to make decision by the government in the meetings of Economic Co-ordination Committee (ECC), which is currently being chaired by the Prime Minister of Pakistan.

Initially WPI was computed with 1959-60 as base, since then continuous efforts have been made to make it more representative by improving and expanding its scope and coverage in terms of commodities, quotations / markets. Accordingly WPI series were computed with 1969-70, 1975-76, 1980-81, 1990-91 and 2000-2001 as base years.

The base year of price indices usually is to be changed after some years in order to capture the changes in consumption pattern of households. A change of base involves enormous cost, time and work. The time interval between two changes has formerly been ten years. This practice has been followed by most of the developing countries of the region. It is internationally recommended, however, to shorten this period to five years, only.

Some of the items covered in CPI, SPI & WPI are of seasonal nature. These items are not available during off-season or some of these are available at exorbitant rates. Therefore, these weights are equally divided among the weights of remaining items of the same category of the group.

All the three measures of inflation are computed by the following Laspeyre's index formula:

$$\text{Index in period } n = \frac{\sum (P_n/P_o) \cdot W_i}{\sum W_i} \times 100$$

Where

P_n = price of an item in the in the nth period

P_o = price of an item in the base period

w_i = weight of the ith item in the base period = $(P_o)(q_o) / \sum (P_o)(Q_o)$

$\sum w_i$ = Total weight of all items.

The formula shows that CPI, SPI and WPI are the summary measure of weighted average of relative prices (current prices over base period prices expressed in percentage). Weight for each CPI item has been developed from Family Budget Survey and represents the percentage expenditure share of a specified item in the total expenditure of the household on all CPI goods and services. Weights of WPI have been derived at aggregate level³. The value of commodities available in the market for sale has been used for deriving weights of commodities. For example, during the base period total production of wheat was 100 MT and farmers has kept 40 MT with them for self consumption. And during the same period import of wheat was 20 MT, then total wheat was available for sale in the market is 80 MT $((100)-(40+20))$. Therefore, the weight of an item in WPI is relative of the value of an item to the value of all items available in the market for sale (included in the basket of goods for WPI).

Same methodology is used for computing indices (CPI) for each city and each category of employees and income group using their respective weights and prices. For preparing overall index, average prices of 35 cities and combined weights are used.

³ Primary and secondary level.

6. UTILIZING A PRICE INDEX FOR CALCULATING INFLATION: EXAMPLE

| Item | Unit | Weight | Base Price | Price Oct 05 | Price Oct 06 | Pn1 / Po · Wi | Pn2 / Po · Wi |
|--------------|------|---------------|------------|--------------|--------------|---------------|---------------|
| i | | Wi | Po | Pn1 | Pn2 | | |
| Masoor Pulse | Kg | 0.6812 | 36.97 | 35.37 | 39.88 | 0.6517 | 0.7348 |
| Moong Pulse | Kg | 0.7550 | 29.89 | 28.66 | 28.47 | 0.7239 | 0.7191 |
| Mash Pulse | Kg | 0.4438 | 46.47 | 36.30 | 36.33 | 0.3467 | 0.3470 |
| Gram Pulse | Kg | 1.5600 | 29.32 | 24.50 | 27.79 | 1.3035 | 1.4786 |
| Σ | | 3.4400 | | | | 3.0259 | 3.2795 |

$$\text{Index in period n} = \frac{\sum (P_n/P_o) \cdot W_i}{\sum W_i}$$

| | |
|-----------------------|-----------------------|
| $\frac{3.0259}{3.44}$ | $\frac{3.2795}{3.44}$ |
| 87.96 | 95.33 |

Inflation December 2006 over November 2005 = $\frac{95.33}{87.96}$ or **8.83 %**.

7. GLOSSARY OF TERMS

Price index is a measured summary of the changes in the prices of basket of goods and services over a given base year.

Core inflation is defined as the persistent component of measured inflation that excludes volatile and controlled prices. Core inflation is computed by the two methods (1) Trimmed-mean inflation and (2) Non-food & Non-energy inflation.

Trimmed-mean inflation is computed by three steps:

- (a) All CPI items are arranged in ascending order according to YoY changes in their prices in a given month.
- (b) 20% of the items showing extreme changes are excluded with 10% of the items at the top of the list and 10 % at the bottom of the list.
- (c) The weighted mean of the price changes of the rest of the items is core inflation.

Non-food & Non-energy inflation

It is computed by excluding food group and energy items (kerosene oil, petrol, diesel, CNG, electricity and natural gas) from the CPI basket. In the table on pp.9, monthly core inflation rates have been given for 2005-06 and 2006-07. Analysis of figures shows that both types of core inflation decreased during 2006-07 as compared to 2005-06.

8. COMPLETE TIME SERIES OF INDICES SINCE BASE YEAR

BASE TABLES OF CPI, SPI AND WPI FY 2001-02 TO FY 2009-10

CPI, SPI and WPI on Yearly basis

| Period | Indices | | | % change over | | |
|---------------------|---------|--------|--------|---------------|-------|-------|
| | CPI | SPI | WPI | CPI | SPI | WPI |
| 2000-01 | 100 | 100 | 100 | - | - | - |
| 2001-02 | 103.54 | 103.37 | 102.08 | 3.54 | 3.37 | 2.08 |
| 2002-03 | 106.75 | 107.06 | 107.77 | 3.10 | 3.58 | 5.57 |
| 2003-04 | 111.63 | 114.38 | 116.29 | 4.57 | 6.83 | 7.91 |
| 2004-05 | 121.98 | 127.59 | 124.14 | 9.28 | 11.55 | 6.75 |
| 2005-06 | 131.64 | 136.56 | 136.68 | 7.92 | 7.02 | 10.10 |
| 2006-07 | 141.87 | 151.34 | 146.18 | 7.77 | 10.82 | 6.94 |
| 2007-08 | 158.90 | 176.78 | 170.15 | 12.00 | 16.81 | 16.41 |
| 2008-09 | 191.90 | 218.16 | 201.10 | 20.77 | 23.41 | 18.19 |
| 2008-2009 (JUL-May) | 191.20 | 217.49 | 200.64 | 21.55 | 24.75 | 19.69 |
| 2009-2010 (JUL-May) | 213.45 | 246.13 | 225.04 | 11.64 | 13.17 | 12.16 |

CPI, SPI and WPI on Monthly basis

| Period | Indices | | | % change over | | |
|----------------|---------|--------|--------|---------------|-------|-------|
| | CPI | SPI | WPI | CPI | SPI | WPI |
| 2001-02 | | | | | | |
| Jul-2001 | 101.99 | 100.49 | 103.74 | 1.53 | 0.62 | 3.74 |
| Aug-2001 | 102.61 | 101.89 | 103.86 | 0.61 | 1.39 | 0.12 |
| Sep-2001 | 102.74 | 102.85 | 103.55 | 0.13 | 0.94 | -0.30 |
| Oct-2001 | 103.14 | 103.50 | 102.43 | 0.39 | 0.63 | -1.08 |
| Nov-2001 | 103.43 | 104.01 | 101.32 | 0.28 | 0.49 | -1.08 |
| Dec-2001 | 102.95 | 103.18 | 100.37 | -0.46 | -0.80 | -0.94 |
| Jan-2002 | 103.06 | 103.05 | 100.05 | 0.11 | -0.13 | -0.32 |
| Feb-2002 | 103.39 | 104.46 | 100.21 | 0.32 | 1.37 | 0.16 |
| Mar-2002 | 104.73 | 105.11 | 101.40 | 1.31 | 0.62 | 1.19 |
| Apr-2002 | 105.10 | 104.67 | 101.59 | 0.34 | -0.42 | 0.19 |
| July-2002 | 104.40 | 102.90 | 102.62 | -0.67 | -1.69 | 1.01 |
| Jun-2002 | 104.90 | 104.31 | 103.87 | 0.48 | 1.37 | 1.22 |
| 2002-03 | | | | | | |
| Jul-2002 | 106.04 | 105.88 | 105.18 | 1.09 | 1.48 | 1.26 |
| Aug-2002 | 106.37 | 107.04 | 106.64 | 0.31 | 1.10 | 1.39 |
| Sep-2002 | 106.57 | 108.18 | 107.11 | 0.19 | 1.07 | 0.44 |
| Oct-2002 | 106.74 | 108.02 | 107.56 | 0.16 | -0.15 | 0.42 |
| Nov-2002 | 106.65 | 107.53 | 106.57 | -0.08 | -0.45 | -0.92 |
| Dec-2002 | 106.39 | 106.85 | 106.69 | -0.24 | -0.63 | 0.11 |
| Jan-2003 | 106.56 | 106.81 | 107.03 | 0.16 | -0.04 | 0.32 |
| Feb-2003 | 107.06 | 107.26 | 110.07 | 0.47 | 0.42 | 2.84 |
| Mar-2003 | 107.10 | 107.25 | 110.64 | 0.04 | -0.01 | 0.52 |
| Apr-2003 | 107.45 | 107.00 | 108.88 | 0.33 | -0.23 | -1.59 |
| July-2003 | 107.14 | 106.35 | 108.73 | -0.29 | -0.61 | -0.14 |
| Jun-2003 | 106.92 | 106.60 | 108.18 | -0.21 | 0.24 | -0.51 |
| 2003-04 | | | | | | |
| Jul-2003 | 107.53 | 108.03 | 109.60 | 0.57 | 1.34 | 1.31 |
| Aug-2003 | 108.24 | 108.79 | 110.67 | 0.66 | 0.70 | 0.98 |
| Sep-2003 | 108.89 | 109.61 | 111.05 | 0.60 | 0.75 | 0.34 |
| Oct-2003 | 110.49 | 112.17 | 114.07 | 1.47 | 2.34 | 2.72 |
| Nov-2003 | 111.15 | 115.13 | 115.32 | 0.60 | 2.64 | 1.10 |
| Dec-2003 | 112.15 | 116.64 | 116.92 | 0.90 | 1.31 | 1.39 |

| Period | Indices | | | % change over | | |
|----------------|---------|--------|--------|---------------|-------|-------|
| | CPI | SPI | WPI | CPI | SPI | WPI |
| Jan-2004 | 112.05 | 115.83 | 117.17 | -0.09 | -0.69 | 0.21 |
| Feb-2004 | 111.67 | 115.12 | 117.64 | -0.34 | -0.61 | 0.40 |
| Mar-2004 | 112.81 | 116.62 | 119.72 | 1.02 | 1.30 | 1.77 |
| Apr-2004 | 113.89 | 116.03 | 120.10 | 0.96 | -0.51 | 0.32 |
| May-2004 | 114.68 | 118.51 | 121.28 | 0.69 | 2.14 | 0.98 |
| Jun-2004 | 115.96 | 120.06 | 121.99 | 1.12 | 1.31 | 0.59 |
| 2004-05 | | | | | | |
| Jul-2004 | 117.56 | 122.98 | 120.77 | 1.38 | 2.43 | -1.00 |
| Aug-2004 | 118.24 | 124.43 | 119.46 | 0.58 | 1.18 | -1.08 |
| Sep-2004 | 118.69 | 124.79 | 119.94 | 0.38 | 0.29 | 0.40 |
| Oct-2004 | 120.10 | 125.45 | 121.64 | 1.19 | 0.53 | 1.42 |
| Nov-2004 | 121.44 | 127.89 | 122.12 | 1.12 | 1.94 | 0.39 |
| Dec-2004 | 120.41 | 126.64 | 121.82 | -0.85 | -0.98 | -0.25 |
| Jan-2005 | 121.58 | 127.79 | 123.68 | 0.97 | 0.91 | 1.53 |
| Feb-2005 | 122.78 | 128.48 | 125.56 | 0.99 | 0.54 | 1.52 |
| Mar-2005 | 124.37 | 129.86 | 127.30 | 1.29 | 1.07 | 1.39 |
| Apr-2005 | 126.53 | 131.53 | 129.35 | 1.74 | 1.29 | 1.61 |
| May-2005 | 125.97 | 130.19 | 128.59 | -0.44 | -1.02 | -0.59 |
| Jun-2005 | 126.09 | 131.10 | 129.50 | 0.10 | 0.70 | 0.71 |
| 2005-06 | | | | | | |
| Jul-2005 | 128.13 | 132.87 | 132.08 | 1.62 | 1.35 | 1.99 |
| Aug-2005 | 128.18 | 133.21 | 133.45 | 0.04 | 0.26 | 1.04 |
| Sep-2005 | 128.82 | 133.51 | 134.17 | 0.50 | 0.23 | 0.54 |
| Oct-2005 | 130.03 | 133.58 | 135.20 | 0.94 | 0.05 | 0.77 |
| Nov-2005 | 131.02 | 134.76 | 135.44 | 0.76 | 0.88 | 0.18 |
| Dec-2005 | 130.66 | 134.43 | 135.26 | -0.27 | -0.24 | -0.13 |
| Jan-2006 | 132.23 | 135.51 | 136.99 | 1.20 | 0.80 | 1.28 |
| Feb-2006 | 132.66 | 137.49 | 138.04 | 0.33 | 1.46 | 0.77 |
| Mar-2006 | 132.97 | 138.65 | 138.13 | 0.23 | 0.84 | 0.07 |
| Apr-2006 | 134.33 | 140.50 | 139.83 | 1.02 | 1.33 | 1.23 |
| May-2006 | 134.94 | 141.42 | 140.32 | 0.45 | 0.65 | 0.35 |
| Jun-2006 | 135.73 | 142.76 | 141.21 | 0.59 | 0.95 | 0.63 |
| 2006-07 | | | | | | |
| Jul-2006 | 137.91 | 144.70 | 143.22 | 1.61 | 1.36 | 1.42 |
| Aug-2006 | 139.63 | 147.85 | 144.35 | 1.25 | 2.18 | 0.78 |
| Sep-2006 | 140.07 | 148.46 | 144.97 | 0.32 | 0.41 | 0.44 |
| Oct-2006 | 140.57 | 149.29 | 144.26 | 0.36 | 0.56 | -0.49 |
| Nov-2006 | 141.59 | 152.79 | 145.54 | 0.73 | 2.34 | 0.89 |
| Dec-2006 | 142.26 | 153.95 | 146.08 | 0.47 | 0.76 | 0.37 |
| Jan-2007 | 141.01 | 151.92 | 144.31 | -0.88 | -1.32 | -1.21 |
| Feb-2007 | 142.47 | 152.06 | 145.07 | 1.04 | 0.09 | 0.51 |
| Mar-2007 | 143.17 | 152.04 | 146.55 | 0.49 | -0.01 | 1.02 |
| Apr-2007 | 143.62 | 152.18 | 148.25 | 0.31 | 0.09 | 1.16 |
| May-2007 | 144.94 | 152.27 | 149.87 | 0.92 | 1.37 | 1.09 |
| Jun-2007 | 145.23 | 156.55 | 151.52 | 0.20 | 1.48 | 1.10 |
| 2007-08 | | | | | | |
| Jul-2007 | 146.70 | 158.84 | 154.10 | 1.01 | 1.46 | 1.70 |
| Aug-2007 | 148.64 | 161.50 | 155.90 | 1.32 | 1.67 | 1.17 |
| Sep-2007 | 151.80 | 165.75 | 158.42 | 2.13 | 2.63 | 1.62 |
| Oct-2007 | 153.66 | 168.18 | 161.30 | 1.23 | 1.47 | 1.82 |
| Nov-2007 | 153.87 | 169.61 | 163.93 | 0.14 | 0.85 | 1.63 |
| Dec-2007 | 154.77 | 172.07 | 163.83 | 0.58 | 1.45 | -0.06 |
| Jan-2008 | 157.73 | 176.66 | 166.75 | 1.91 | 2.67 | 1.78 |
| Feb-2008 | 158.50 | 174.31 | 168.81 | 0.49 | -1.33 | 1.24 |

| Period | Indices | | | % change over | | |
|----------|---------|--------|--------|---------------|-------|--------|
| | CPI | SPI | WPI | CPI | SPI | WPI |
| Mar-2008 | 163.38 | 180.27 | 175.55 | 3.08 | 3.42 | 3.99 |
| Apr-2008 | 168.34 | 190.14 | 183.09 | 3.04 | 5.48 | 4.30 |
| May-2008 | 172.87 | 200.42 | 192.19 | 2.69 | 5.41 | 4.97 |
| Jun-2008 | 176.50 | 203.55 | 197.92 | 2.10 | 1.56 | 2.98 |
| Jul-2008 | 182.39 | 211.22 | 206.53 | 3.34 | 3.77 | 4.35 |
| Aug-2008 | 186.29 | 216.17 | 211.60 | 2.14 | 2.34 | 2.45 |
| Sep-2008 | 188.10 | 217.27 | 211.02 | 0.97 | 0.51 | -0.27 |
| Oct-2008 | 192.08 | 223.14 | 207.08 | 2.12 | 2.70 | -1.87 |
| Nov-2008 | 191.85 | 220.13 | 196.50 | - 0.12 | -1.35 | - 5.11 |
| Dec-2008 | 190.90 | 216.40 | 192.62 | -0.50 | -1.69 | -1.97 |
| Jan-2009 | 190.09 | 213.32 | 192.91 | -0.42 | -1.42 | 0.15 |
| Feb-2009 | 191.90 | 215.13 | 194.19 | 0.95 | 0.85 | 0.66 |
| Mar-2009 | 194.53 | 216.51 | 195.00 | 1.37 | 0.64 | 0.42 |
| Apr-2009 | 197.28 | 220.14 | 198.28 | 1.41 | 1.68 | 1.68 |
| May-2009 | 197.74 | 222.94 | 201.29 | 0.23 | 1.27 | 1.52 |
| Jun-2009 | 199.69 | 225.54 | 206.13 | 0.99 | 1.17 | 2.40 |
| Jul-2009 | 202.77 | 231.80 | 207.57 | 1.54 | 2.78 | 0.70 |
| Aug-2009 | 206.21 | 235.70 | 212.30 | 1.70 | 1.68 | 2.21 |
| Sep-2009 | 207.14 | 237.02 | 212.53 | 0.45 | 0.56 | 0.17 |
| Oct-2009 | 209.11 | 237.86 | 215.01 | 0.95 | 0.35 | 1.17 |
| Nov-2009 | 212.02 | 243.79 | 220.98 | 1.39 | 2.49 | 2.78 |
| Dec-2009 | 210.99 | 245.40 | 221.43 | -0.49 | 0.66 | 0.20 |
| Jan-2010 | 216.09 | 252.46 | 230.80 | 2.42 | 2.88 | 4.23 |
| Feb-2010 | 216.93 | 253.87 | 231.64 | 0.39 | 0.56 | 0.36 |
| Mar-2010 | 219.65 | 255.84 | 237.51 | 1.25 | 0.78 | 2.53 |
| Apr-2010 | 223.44 | 256.94 | 241.88 | 1.73 | 0.43 | 1.84 |
| May-2010 | 223.58 | 256.78 | 243.98 | 0.06 | -0.06 | 0.87 |

9. HISTORY OF COVERAGE OF WPI AND CPI

WPI

| Base Year | NO of Commodities | NO of Cities | Commodity Groups |
|-------------|-------------------|--------------|---|
| 1959-60=100 | 64 | 22 | 1. Food 2. Raw Material 3. Fuel, Lighting & Lubricants 4. Manufactures |
| 1969-70=100 | 72 | 22 | |
| 1975-76=100 | 87 | 22 | |
| 1980-81=100 | 91 | 22 | 1. Food 2. Raw Material 3. Fuel, Lighting & Lubricants 4. Manufactures 5. Building Material |
| 190-91=100 | 96 | 16 | |
| 2000-01=100 | 106 | 18 | |

CPI

| Base year | Baskets of income groups ... | Occupational Category | Number of ... | | | |
|-----------|---|---|---------------|------------------|--------|---------|
| | | | items | commodity groups | cities | markets |
| 1948-49 | 1. Upto Rs. 68-130 | Industrial | | 4 | 4 | - |
| 1955-56 | 1. Upto Rs. 105-130 2. RS. 218-332 | Industrial Clerical | | 4 | 4 | - |
| 1969-70 | 1. Upto Rs. 300 2. Rs. 301-500 3. Rs. 501-1000 4. Above Rs. 1000 | Industrial Commercial Govt. | 202 | 4 | 12 | 28 |
| 1975-76 | 1. Upto Rs. 600 2. Rs. 601-1500 3. Rs. 1501-2500 4. Above Rs. 2500 | Industrial Commercial Govt. | 357 | 4 | 12 | 28 |
| 1980-81 | 1. Upto Rs. 1000 2. Rs. 1001-2500 3. Rs. 2501-4500 4. Above Rs. 4500 | Industrial Commercial Govt. | 464 | 9 | 25 | 65 |
| 1990-91 | 1. Upto Rs. 1500 2. Rs. 1501-4000 3. Rs. 4001-7000 4. Rs. 7001-10000 5. Rs. Above 10000 | Industrial Commercial Govt. Self Employer & employed | 460 | 9 | 25 | 61 |
| 2000-01 | 1. Upto Rs. 3000 2. Rs. 3001-5000 3. Rs. 5001-1200 4. Above Rs. 12000 | All categories combined | 374 | 10 | 35 | 71 |