

Inflation Monitor

July 2013



State Bank of Pakistan

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Team Leader

- Behzad Ali Ahmad Sr. Joint Director
behzad.ali@sbp.org.pk

Team Members

- Muhammad Ashfaq Assistant Director
muhammad.ashfaqch@sbp.org.pk
 - Syed Salman Bukhari Assistant Director
salman.bukhari@sbp.org.pk

Review

Inflation in Brief

1. Headline CPI inflation (2007-08=100) is recorded at 8.3 percent on year-on-year basis in July 2013 as compared to 5.9 percent in the previous month and 9.6 percent in the corresponding month of last year.
2. CPI inflation on month-on-month basis is recorded at 2.0 percent in July 2013 as compared to 0.7 percent in the previous and -0.2 percent during the corresponding month of last year. Seasonally adjusted month-on-month CPI inflation recorded at 1.3 percent in July 2013 as compared to 0.8 percent in the previous month.
3. Core inflation (trimmed) on year-on-year basis increased to 7.8 percent in July 2013 as compared to 6.8 percent in the previous month and was 10.7 percent in the corresponding month of last year.
4. On month-on-month basis, the Core inflation (trimmed) increased to 1.2 percent in July 2013 as compared to 0.6 percent in the previous month and was 0.7 percent in the corresponding month of last year.
5. Non-food, non-energy inflation measured by CPI Core (NFNE) on year-on-year basis increased to 8.2 percent in July 2013 as compared to 7.8 percent in the previous month. It was 11.3 percent in the corresponding month of last year.
6. Core NFNE inflation on month-on-month basis increased to 1.5 percent in July 2013 as compared to 0.4 percent in the previous month. An 1.0 percent rate of change in Core NFNE was observed in July 2012.
7. WPI inflation on year-on-year basis increased to 6.5 percent in July 2013 when compared to 5.2 percent a month earlier. During July 2012, WPI inflation was recorded at 7.2%.

Inflation Monitor, July 2013

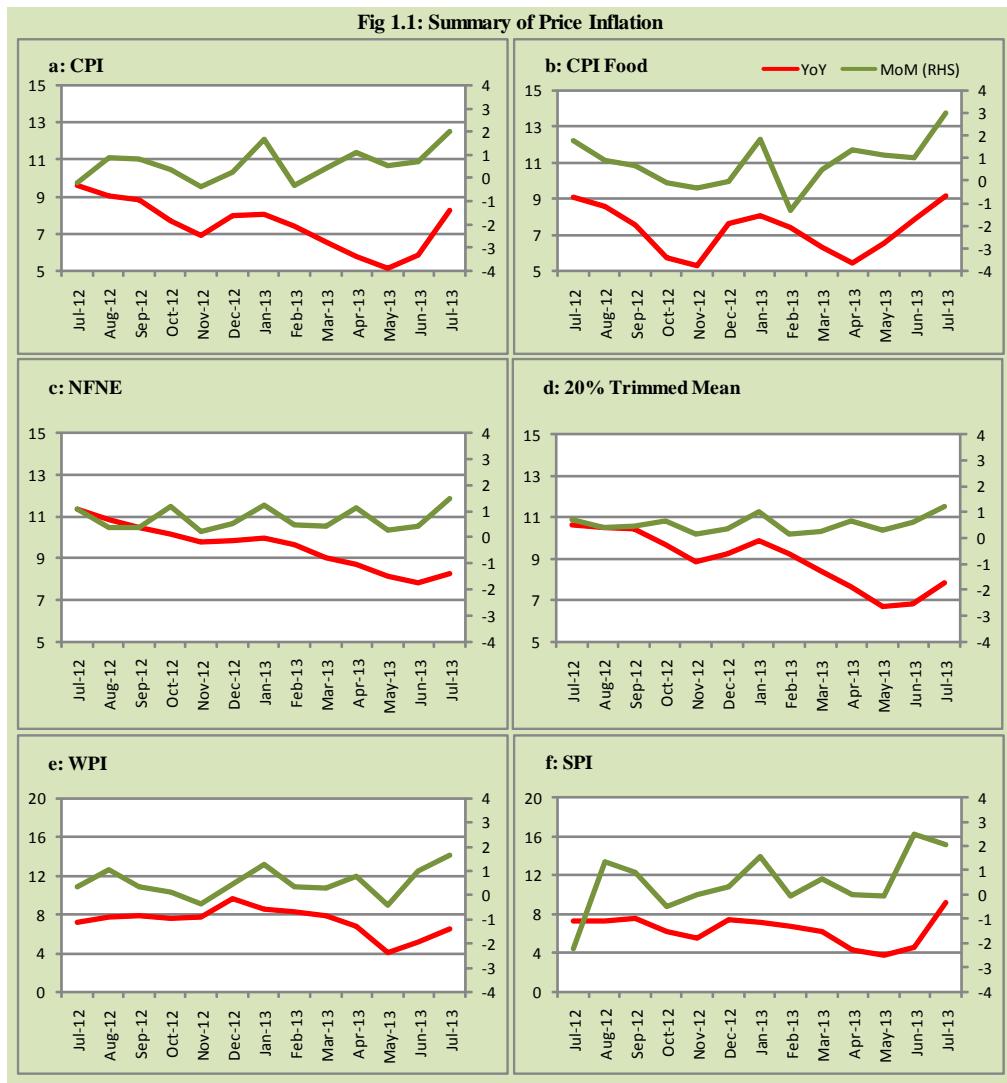
8. WPI inflation on month-on-month basis recorded at 1.6 percent in July 2013 as compared to 1.0 percent in the previous month and was 0.4 percent in the corresponding month of last year.
9. SPI inflation on year-on-year basis increased to 9.1 percent in July 2013 as compared to 4.6 percent in the previous month. It was 7.3 percent in the corresponding month of last year.
10. SPI inflation on month-on-month basis recorded at 2.1 percent in July 2013 as compared to 2.5 percent in previous month and was -2.2 percent in July 2012.

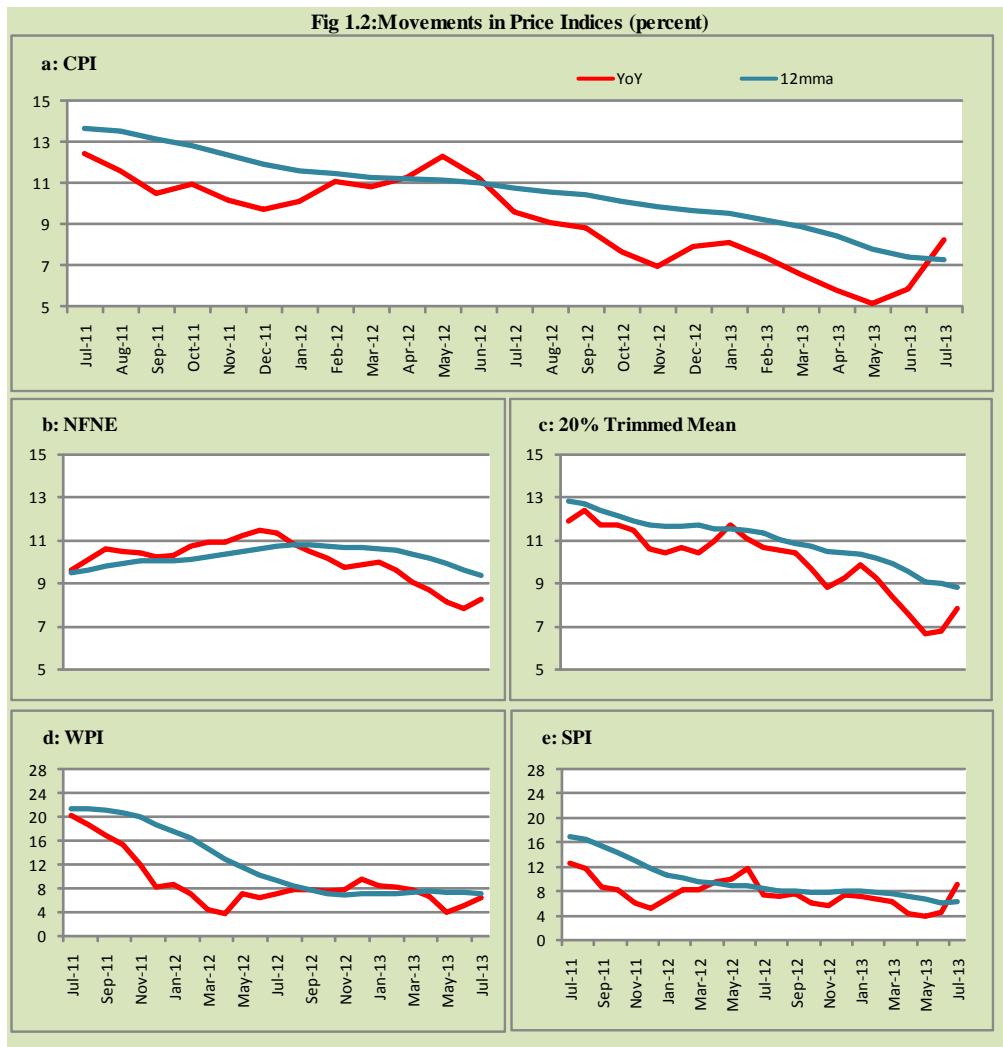
Table 1.1 Inflation Trends (percent) (Base 2007- 08 = 100)

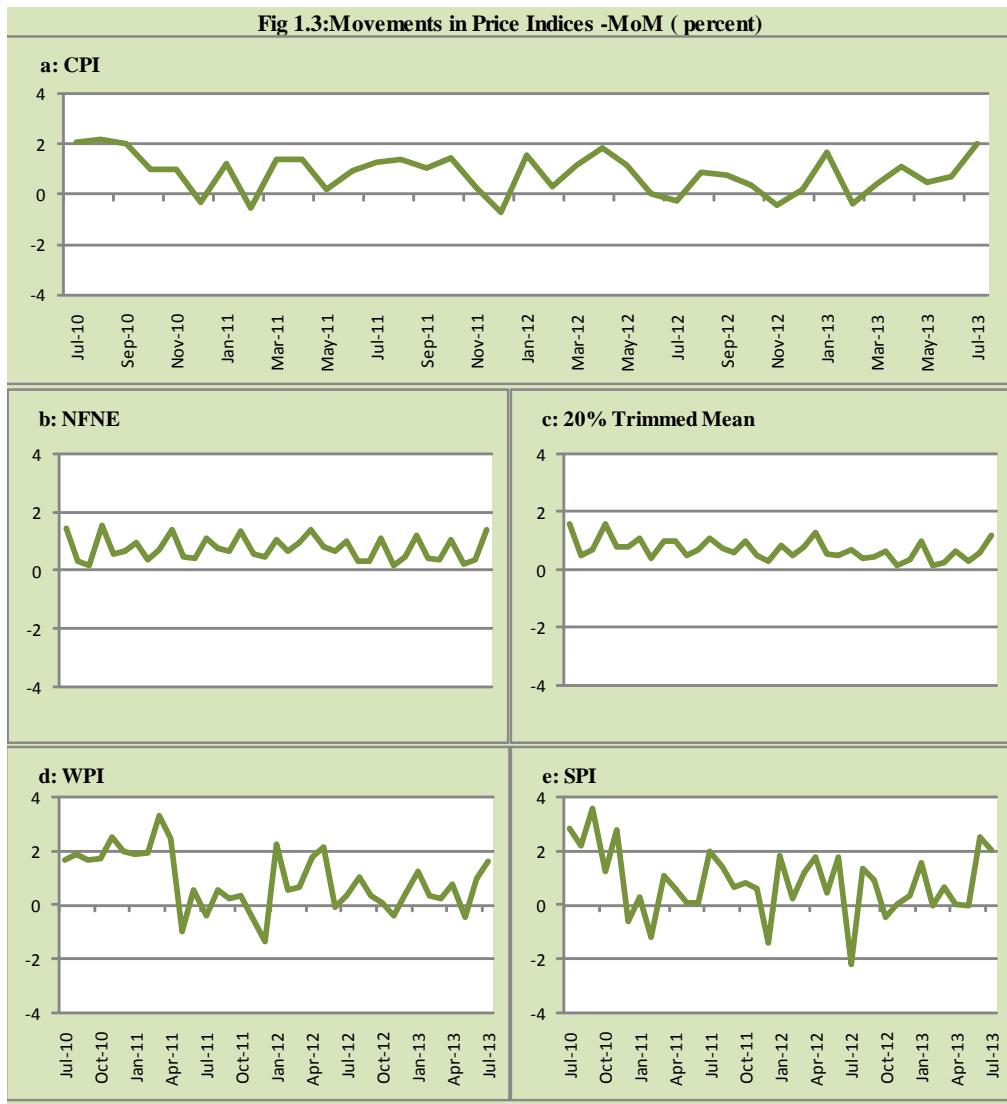
| Period | CPI Inflation | | | | Core Inflation | | | | WPI Inflation | | SPI** Inflation | |
|--------|---------------|------|------|------|----------------|------|-------|-----|---------------|-----|-----------------|------|
| | General | | Food | | Non-food | | NFNE* | | Trimmed | | | |
| | YoY | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY | MoM |
| Jul-12 | 9.6 | -0.2 | 9.1 | 1.8 | 10.0 | -1.7 | 11.3 | 1.0 | 10.7 | 0.7 | 7.2 | 0.4 |
| Aug-12 | 9.1 | 0.9 | 8.5 | 0.9 | 9.4 | 0.9 | 10.8 | 0.3 | 10.6 | 0.4 | 7.7 | 1.0 |
| Sep-12 | 8.8 | 0.8 | 7.6 | 0.7 | 9.7 | 0.9 | 10.5 | 0.4 | 10.4 | 0.5 | 7.8 | 0.3 |
| Oct-12 | 7.7 | 0.4 | 5.8 | -0.1 | 9.0 | 0.7 | 10.2 | 1.2 | 9.7 | 0.7 | 7.5 | 0.1 |
| Nov-12 | 6.9 | -0.4 | 5.3 | -0.3 | 8.1 | -0.4 | 9.8 | 0.2 | 8.8 | 0.2 | 7.7 | -0.4 |
| Dec-12 | 7.9 | 0.2 | 7.7 | 0.0 | 8.1 | 0.4 | 9.8 | 0.5 | 9.2 | 0.3 | 9.6 | 0.4 |
| Jan-13 | 8.1 | 1.7 | 8.1 | 1.9 | 8.1 | 1.5 | 10.0 | 1.2 | 9.9 | 1.0 | 8.6 | 1.2 |
| Feb-13 | 7.4 | -0.3 | 7.4 | -1.3 | 7.4 | 0.4 | 9.6 | 0.4 | 9.2 | 0.2 | 8.3 | 0.3 |
| Mar-13 | 6.6 | 0.4 | 6.3 | 0.5 | 6.7 | 0.3 | 9.0 | 0.4 | 8.4 | 0.2 | 7.9 | 0.3 |
| Apr-13 | 5.8 | 1.1 | 5.5 | 1.4 | 6.0 | 0.9 | 8.7 | 1.1 | 7.6 | 0.7 | 6.8 | 0.8 |
| May-13 | 5.1 | 0.5 | 6.5 | 1.1 | 4.1 | 0.1 | 8.1 | 0.3 | 6.7 | 0.3 | 4.1 | -0.4 |
| Jun-13 | 5.9 | 0.7 | 7.9 | 1.1 | 4.4 | 0.5 | 7.8 | 0.4 | 6.8 | 0.6 | 5.2 | 1.0 |
| Jul-13 | 8.3 | 2.0 | 9.2 | 3.0 | 7.6 | 1.3 | 8.2 | 1.5 | 7.8 | 1.2 | 6.5 | 1.6 |

* NFNE is Non-food non-energy

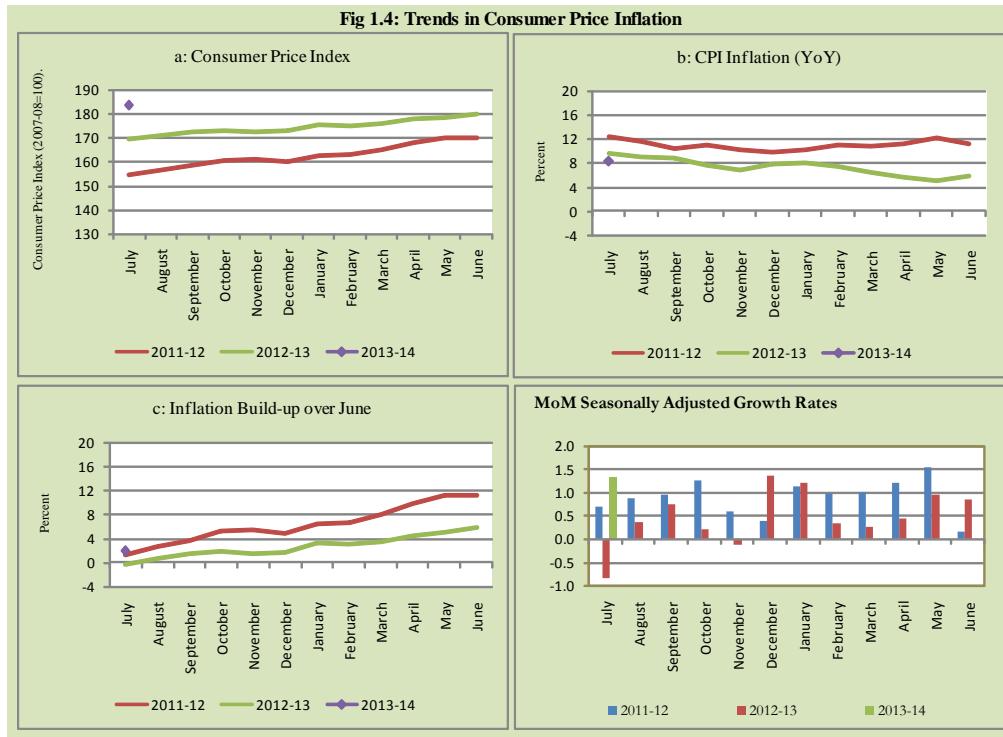
** SPI for all income groups combined







Inflation Monitor, July 2013



2. City wise Inflation

CPI Inflation on year-on-year basis in federal and provincial capitals of Pakistan showed mixed trend during July 2013. Among these five cities, the lowest inflation was observed in Lahore at 5.8 percent while the highest inflation was observed in Peshawar at 11.0 percent (Table A6 of annexure-A).

Table 2.1 City-wise Inflation of Selected Cities (percent)

| | Jul-12 | | Jun-13 | | Jul-13 | |
|--------------------|--------|-----|--------|-----|--------|------|
| | MoM | YoY | MoM | YoY | MoM | YoY |
| Overall CPI | -0.2 | 9.6 | 0.7 | 5.9 | 2.0 | 8.3 |
| Islamabad | -0.2 | 8.6 | -0.1 | 5.6 | 1.7 | 7.6 |
| Karachi | -1.6 | 7.8 | 1.4 | 4.7 | 1.7 | 8.2 |
| Lahore | 0.4 | 9.0 | 1.0 | 4.8 | 1.4 | 5.8 |
| Peshawar | -0.8 | 6.7 | 0.8 | 7.4 | 2.5 | 11.0 |
| Quetta | -0.7 | 9.5 | 1.2 | 5.6 | 2.7 | 9.2 |

3. Income Group wise Inflation

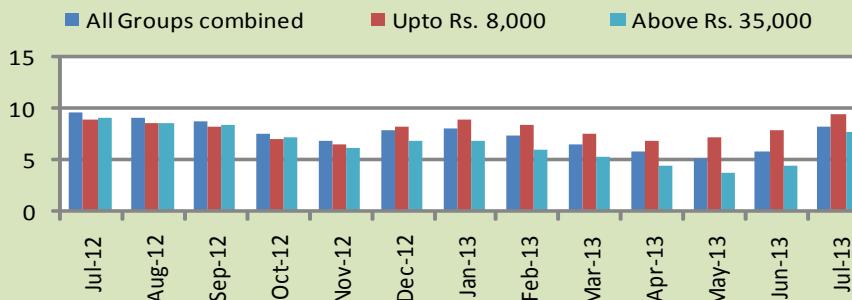
Income group- wise data showed that income group above Rs. 35,000 witnessed lower inflation than the overall inflation in CPI basket during July 2013 for general, food and non-food groups and also lowest among the groups. The lowest income group (Up to Rs. 8, 000) has the highest inflation among the groups during the month of July 2013 (Table A7 of annexure-A).

Table 3.1 Income Group- wise Inflation (YoY)

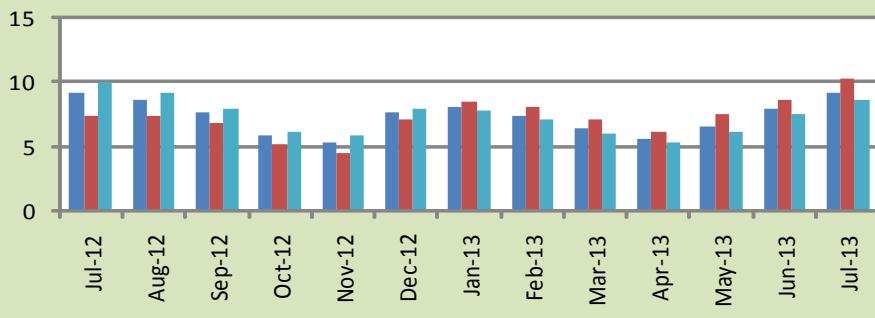
| Income Groups | General | | | Food | | | Non-food | | |
|----------------------------|---------|--------|--------|--------|--------|--------|----------|--------|--------|
| | Jul-12 | Jun-13 | Jul-13 | Jul-12 | Jun-13 | Jul-13 | Jul-12 | Jun-13 | Jul-13 |
| All Groups Combined | 9.6 | 5.9 | 8.3 | 9.1 | 7.9 | 9.2 | 10.0 | 4.4 | 7.6 |
| Up to Rs. 8,000 | 8.9 | 7.9 | 9.4 | 7.4 | 8.6 | 10.2 | 11.0 | 7.0 | 8.4 |
| Rs. 8,001- 12,000 | 10.2 | 7.5 | 8.9 | 8.0 | 8.3 | 9.7 | 12.8 | 6.6 | 8.0 |
| Rs. 12,001- 18,000 | 10.1 | 7.3 | 8.6 | 8.6 | 8.1 | 9.5 | 11.7 | 6.6 | 7.8 |
| Rs. 18,001- 35,000 | 9.0 | 5.6 | 8.5 | 9.1 | 7.9 | 9.2 | 8.8 | 3.7 | 7.8 |
| Above Rs. 35,000 | 9.2 | 4.5 | 7.8 | 10.0 | 7.5 | 8.7 | 8.7 | 3.0 | 7.4 |

Fig 3.1: Income Group- wise Inflation

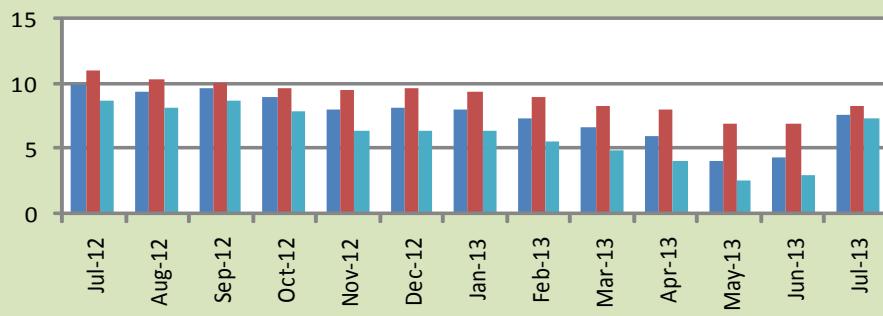
a: CPI Overall Inflation (YoY)



b: CPI Food Inflation (YoY)



c: CPI Non-Food Inflation (YoY)



4. Weighted Contribution

The weighted contribution of food group in the overall inflation decreased to 46.72 percent during July 2013 from 55.58 percent in June 2013. It was 40.17 percent in July 2012.

The weighted contribution of non-food group showed increase to touch 53.28 percent in July 2013 from 44.42 percent in June 2013.

Table 4.1 Weighted Contribution to CPI Inflation (YoY)

| Period | Food | Clothing & Footwear | Housing, Water, Elect, Gas & Other Fuel | Transport | Education | Others |
|---------------|-------------|--------------------------------|--|------------------|------------------|---------------|
| Jul-12 | 40.17 | 11.54 | 15.53 | 9.68 | 3.66 | 19.42 |
| Aug-12 | 39.99 | 12.01 | 12.97 | 12.64 | 3.85 | 18.55 |
| Sep-12 | 36.69 | 11.86 | 13.06 | 16.16 | 3.86 | 18.38 |
| Oct-12 | 32.26 | 13.20 | 14.34 | 15.11 | 4.52 | 20.57 |
| Nov-12 | 32.78 | 14.79 | 15.75 | 10.05 | 4.90 | 21.74 |
| Dec-12 | 40.58 | 14.29 | 13.76 | 8.43 | 4.39 | 18.56 |
| Jan-13 | 41.94 | 13.53 | 11.88 | 10.07 | 4.20 | 18.38 |
| Feb-13 | 41.59 | 15.24 | 12.70 | 8.00 | 3.93 | 18.53 |
| Mar-13 | 40.11 | 14.02 | 14.27 | 7.14 | 4.58 | 19.89 |
| Apr-13 | 39.66 | 15.99 | 16.52 | 1.30 | 4.17 | 22.36 |
| May-13 | 52.66 | 17.82 | 4.28 | -0.34 | 4.91 | 20.67 |
| Jun-13 | 55.58 | 17.03 | 3.84 | 3.09 | 4.46 | 15.99 |
| Jul-13 | 46.72 | 13.37 | 20.20 | 5.27 | 3.25 | 11.19 |

5. Inflation Diffusion Index

Table 5.1 Inflation Diffusion Index - based on MoM change

| | Jul-12 | Aug-12 | Sep-12 | Oct-12 | Nov-12 | Dec-12 | Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13 | Jun-13 | Jul-13 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| General | 41.4 | 41.4 | 48.6 | 54.7 | 39.6 | 49.6 | 51.4 | 37.9 | 39.1 | 40.9 | 44.5 | 48.4 | 58.0 |
| Food & Non-Alcoholic Beverages | 25.4 | 47.8 | 44.2 | 38.3 | 19.1 | 33.0 | 49.6 | 15.2 | 22.5 | 23.9 | 34.6 | 50.4 | 53.5 |
| Alcoholic Beverages & Tobacco | 100.0 | 83.3 | 83.3 | 33.3 | 83.3 | 83.3 | 33.3 | 0.0 | 0.0 | 0.0 | 33.3 | 100.0 | 100.0 |
| Clothing & Footwear | 62.7 | 76.3 | 64.4 | 84.7 | 79.7 | 89.8 | 72.9 | 84.7 | 59.3 | 67.8 | 67.8 | 55.9 | 76.3 |
| Housing, Water, Elect, Gas & other Fuels | 33.3 | 30.6 | 38.9 | 50.0 | 22.2 | 38.9 | 66.7 | 22.2 | 33.3 | 58.3 | 16.7 | 50.0 | 66.7 |
| Furnishing & Household Equip. Maintenance etc | 68.1 | 20.3 | 81.2 | 79.7 | 69.6 | 76.8 | 63.8 | 53.6 | 68.1 | 69.6 | 78.3 | 76.8 | 78.3 |
| Health | 33.3 | 23.1 | 41.0 | 23.1 | 33.3 | 23.1 | 30.8 | 17.9 | 15.4 | 23.1 | 20.5 | 10.3 | 17.9 |
| Transport | 39.5 | 41.9 | 37.2 | 48.8 | 11.6 | 37.2 | 44.2 | 46.5 | 27.9 | 14.0 | 27.9 | 32.6 | 53.5 |
| Communication | -25.0 | 8.3 | 16.7 | 50.0 | 33.3 | 50.0 | 66.7 | 16.7 | 8.3 | 16.7 | 33.3 | 16.7 | 58.3 |
| Recreation & Culture | 17.9 | 23.1 | 10.3 | 35.9 | 17.9 | 20.5 | 28.2 | 25.6 | 25.6 | 35.9 | 30.8 | 28.2 | 33.3 |
| Education | 25.0 | 43.8 | 31.3 | 43.8 | 12.5 | 25.0 | 6.3 | 25.0 | 75.0 | 25.0 | 43.8 | 43.8 | 50.0 |
| Restaurant & Hotels | 100.0 | 33.3 | 83.3 | 100.0 | 66.7 | 100.0 | 83.3 | 100.0 | 66.7 | 50.0 | 83.3 | 66.7 | 100.0 |
| Miscellaneous | 60.0 | 60.0 | 54.3 | 80.0 | 65.7 | 65.7 | 51.4 | 51.4 | 57.1 | 54.3 | 60.0 | 57.1 | 60.0 |
| NFNE | 47.0 | 38.8 | 49.1 | 62.1 | 46.4 | 55.3 | 52.7 | 45.9 | 45.6 | 49.1 | 49.4 | 47.9 | 58.6 |

See annexure B (Technical Notes) for the definition of Inflation Diffusion Index.

6. Domestic Commodity Prices

Table 6.1 Inflation in Domestic CPI Food Commodities

| Sr. No | Item | Unit | Jul-12 | | Jun-13 | | Jul-13 | |
|--------|-----------------------------|--------|--------|-------|--------|--------|--------|-------|
| | | | YoY | MoM | YoY | MoM | YoY | MoM |
| 1 | Wheat | 10 Kg | 6.49 | 0.21 | 18.58 | 2.63 | 22.47 | 3.49 |
| 2 | Wheat Flour Bag | 10 Kg | 4.84 | -0.40 | 19.52 | 2.70 | 22.27 | 1.90 |
| 3 | Rice Basmati Sup. Qlty. | Kg | 18.65 | 2.28 | 19.83 | 1.73 | 18.48 | 1.13 |
| 4 | Pulse Masoor (Washed) | Kg | -8.18 | -1.10 | 6.00 | 1.35 | 9.82 | 2.46 |
| 5 | Pulse Moong (Washed) | Kg | -14.15 | -0.47 | -3.41 | 2.27 | 2.71 | 5.84 |
| 6 | Pulse Mash (Washed) | Kg | -12.19 | -1.45 | -4.86 | 0.67 | -3.88 | -0.43 |
| 7 | Pulse Gram | Kg | 49.95 | 0.03 | -21.40 | -1.27 | -25.56 | -5.27 |
| 8 | Vegetable Ghee (Loose) | Kg | 4.25 | -1.16 | -6.71 | 0.39 | -5.69 | -0.08 |
| 9 | Sugar Refined | Kg | -21.90 | -0.74 | -2.08 | 1.57 | -0.63 | 0.73 |
| 10 | Milk Fresh (Unboiled) | Ltr | 12.80 | 0.64 | 7.94 | 1.59 | 7.74 | 0.46 |
| 11 | Tea- Tapal Danedar | 200 Gm | -1.76 | -7.19 | 23.20 | 0.70 | 36.24 | 2.63 |
| 12 | Beef With Bone Av. Qlty. | Kg | 13.24 | 0.02 | 3.39 | 0.14 | 4.21 | 0.81 |
| 13 | Mutton Av. Qlty. | Kg | 13.40 | 0.00 | 5.36 | 0.55 | 6.13 | 0.73 |
| 14 | Chicken Farm Broiler (Live) | Kg | 14.59 | 12.15 | 15.59 | 23.16 | -0.76 | -3.71 |
| 15 | Eggs Farm | Doz | 0.11 | 3.04 | 2.47 | -2.63 | 8.35 | 8.95 |
| 16 | Potatoes | Kg | -11.03 | 11.85 | -0.16 | 19.16 | 11.46 | 24.87 |
| 17 | Onion | Kg | 50.94 | 20.82 | 87.83 | -14.17 | 61.82 | 4.09 |
| 18 | Tomatoes | Kg | -31.94 | 16.60 | 125.05 | 23.19 | 247.07 | 79.83 |
| 19 | Ginger | Kg | -26.29 | 3.16 | 31.78 | 2.21 | 36.17 | 6.59 |
| 20 | Garlic | Kg | -37.01 | 9.01 | 36.30 | -8.23 | 21.58 | -2.77 |

7. Global Commodity Prices

Table 7.1 Changes in Major Global Indices (percent)

| Item/ Group | Jul-12 | | Jun-13 | | Jul-13 | |
|----------------|--------|------|--------|------|--------|------|
| | YoY | MoM | YoY | MoM | YoY | MoM |
| Overall | -10.4 | 4.7 | 5.2 | -0.2 | 3.1 | 2.6 |
| Food | 2.7 | 9.2 | 9.4 | 0.5 | -0.6 | -0.7 |
| Metals | -24.4 | -1.4 | -8.6 | -3.8 | -5.7 | 1.8 |
| Energy | -9.8 | 5.1 | 7.0 | 0.0 | 6.1 | 4.2 |
| Agricultural | -16.7 | -0.3 | 6.3 | 2.7 | 3.3 | -3.1 |
| Cotton | -43.7 | 2.2 | 13.3 | 0.5 | 10.3 | -0.5 |

Source: IMF

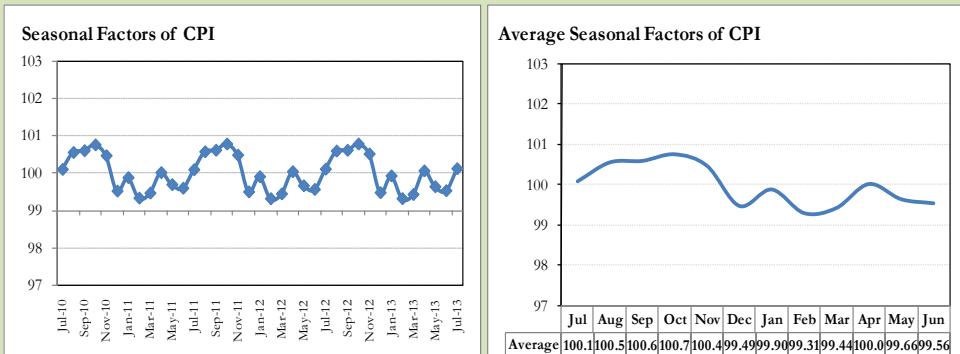
8. Seasonal Adjustment in CPI

Seasonal adjustment is the process of estimating and removing the seasonal effects from a time series after decomposing it into seasonal, trend, cycle and irregular components. The purpose is to identify the different components of the time series and thus provide a better understanding of its underlying behavior. Seasonally adjusted changes are usually preferred for analyzing general price trends in the economy because they eliminate the effect of changes that normally occur at the same time and in about the same magnitude every year. Various statistical methods can be used to decompose a time series into its constituent components. The State Bank of Pakistan uses X-12- ARIMA Seasonal Adjustment Method for this purpose.

The changes in consumer prices are normally reported in terms of year-on-year and month-on-month basis. Seasonal adjustment is particularly useful for analyzing month-on-month changes. The monthly data series of Consumer Price Index (CPI) from July 2008 to July 2013 has been used for seasonal adjustment analysis. The seasonal analysis is carried out without taking trading-day or Islamic calendar month's effects.

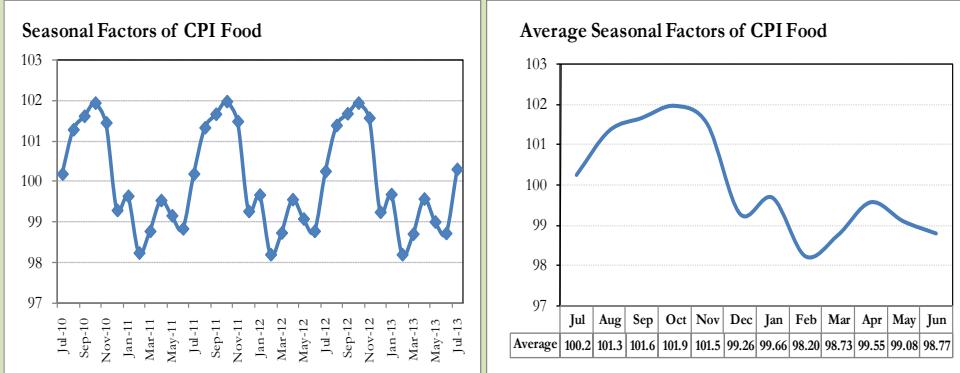
Figure 8.1 reveals that seasonality in CPI has been increasing over the period of last four years. Average seasonal factors reveal strong seasonality during the calendar year. There is an upward seasonality during the months from July to November & April and downward seasonality in the remaining months of the year. Upward and downward seasonality is above and below the trend line respectively. It is important to note that seasonal factors are estimates based on present and past experience and that future data may not necessarily show the same pattern of seasonal factors.

Fig. 8.1 Seasonal Factors of CPI



Note: Data Available in Annex Table 16.

Fig. 8.2 Seasonal Factors of CPI Food



Note: Data Available in Annex Table 17.

Figures 8.3 & 8.4 show that seasonally adjusted series are relatively smoother than the original series due to the removal of the seasonal variations. The trend follows the long-term movement in original series, and is smoother than the original series because some irregular fluctuations have been removed.

Fig. 8.3 Seasonal Plots of CPI

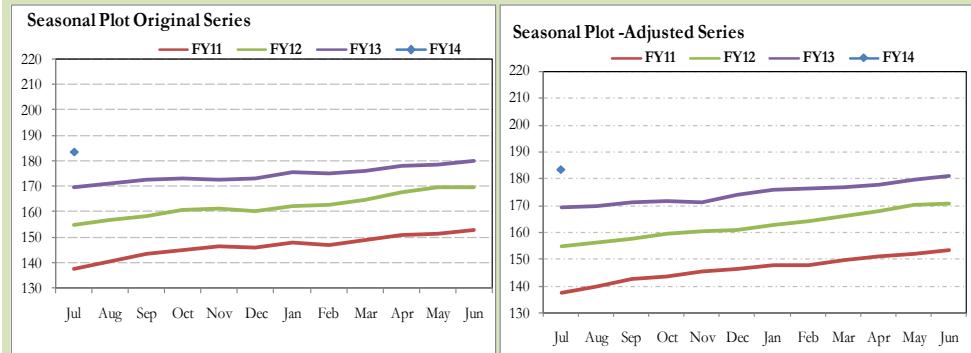
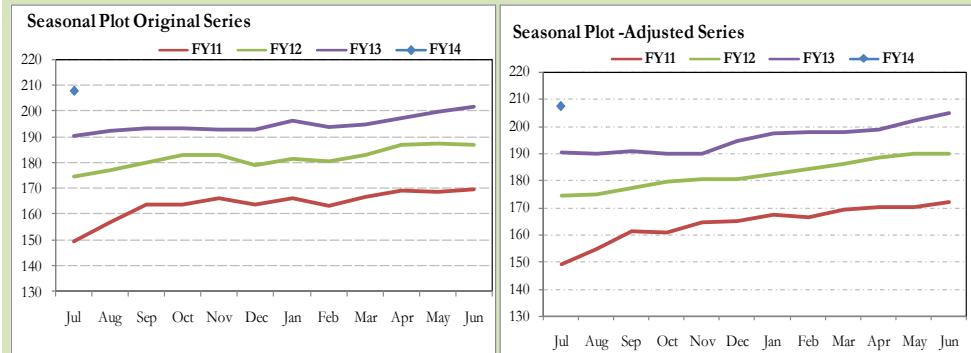


Fig. 8.4 Seasonal Plots of CPI (Food)



Seasonally adjusted CPI for July 2013 stood at 183.34 against 183.58 in original series showing a decrease of -0.24 on account of adjustment of upward seasonality in July 2013.

Seasonally adjusted CPI food group for July 2013 stood at 207.57 against 208.19 in original series showing a decrease of -0.62 on account of adjustment of upward seasonality in July 2013.

Month-on-month change of seasonally adjusted CPI series stood at 1.34% reflecting increase during July 2013 over June 2013 and an increase of 2.02% in original series.

Month-on-month change of seasonally adjusted CPI food group series stood at 1.38% reflecting increase during July 2013 over June 2013 and an increase of 3.01% in original series.

It is important to note that inflation rates should be analyzed on the basis of seasonally adjusted rates. This is especially needed for inflation rates on month-on-month basis. The most recent annual rate of inflation is usually indicated by annualizing the seasonally adjusted month-on-month rate. Annualized rate of CPI inflation in July 2013 (corresponding to the seasonally adjusted month-on-month rate) is 17.28 percent.

Fig. 8.5 Month-on-Month Percent Changes in CPI

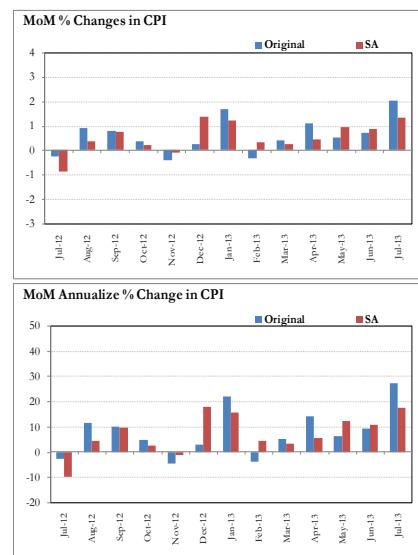
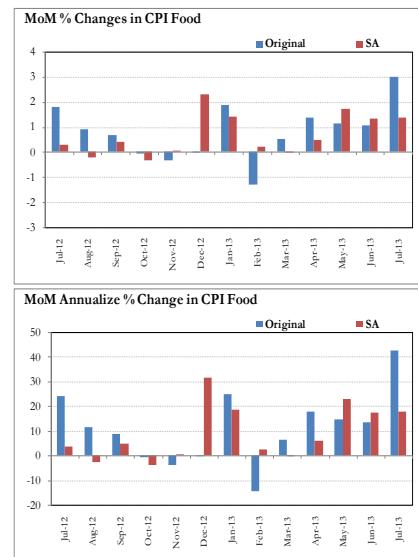


Fig. 8.6 Month-on-Month Percent Changes in CPI Food



Annexure A

Table A1: CPI Inflation by Groups (percent)

| Weight | MoM change | | | YoY change | | |
|--|-------------|-------------|------------|------------|-------------|------------|
| | Jul-12 | Jun-13 | Jul-13 | Jul-12 | Jun-13 | Jul-13 |
| I. Food Group | 37.5 | 1.8 | 1.1 | 3.0 | 9.1 | 7.9 |
| Food & Non-Alcoholic Beverages | 34.8 | 1.9 | 1.0 | 2.7 | 8.7 | 8.1 |
| Alcoholic Beverages & Tobacco | 1.4 | 0.7 | 1.8 | 11.7 | 18.1 | 3.5 |
| Restaurant & Hotels | 1.2 | 0.6 | 0.3 | 1.5 | 10.3 | 8.0 |
| II. Non-Food Group | 62.5 | -1.7 | 0.5 | 1.3 | 10.0 | 4.4 |
| Clothing & Footwear | 7.6 | 1.0 | 1.5 | 2.1 | 15.8 | 13.6 |
| Housing, Water, Elect, Gas & Furnishing & Household Equip. | 29.4 | -3.5 | 0.1 | 1.9 | 5.6 | 0.8 |
| Health | 4.2 | 0.5 | 0.6 | 0.8 | 20.2 | 7.3 |
| Transport | 2.2 | 1.6 | 0.4 | 0.3 | 15.6 | 9.2 |
| Communication | 7.2 | -2.4 | 0.9 | 0.8 | 12.6 | 2.3 |
| Recreation & Culture | 3.2 | 0.0 | 0.0 | 0.7 | 0.1 | 4.1 |
| Education | 2.0 | 0.2 | 0.7 | 0.4 | 18.6 | 8.2 |
| Miscellaneous | 3.9 | 0.3 | 0.8 | 0.4 | 9.9 | 7.4 |
| | 2.8 | 0.1 | -0.1 | -0.7 | 15.2 | 6.2 |
| Headline | 100 | -0.2 | 0.7 | 2.0 | 9.6 | 5.9 |
| | | | | | | 8.3 |

Table A2: Distribution of Price changes (YoY) of CPI basket

| Groups | % changes Jul-13 | No of items in each inflation range | | | | | | | | | |
|---|------------------|-------------------------------------|------------------------------|------------------------------------|-----------|--------------------------------|-----------|--|------------|-------------------------------------|------------|
| | | Total number of items Jul-12 | Total number of items Jul-13 | Decrease or no change (0% or less) | | Subdued increase (>0% but <5%) | | Moderate increase (5% but less than 10%) | | Double digit increase (10% or more) | |
| | | | | Jul-12 | Jul-13 | Jul-12 | Jul-13 | Jul-12 | Jul-13 | Jul-12 | Jul-13 |
| I. Food Group | 9.2 | 127 | 127 | 24 | 28 | 17 | 19 | 26 | 36 | 60 | 44 |
| Food & Non-Alcoholic Beverages | 8.9 | 115 | 115 | 24 | 28 | 17 | 19 | 21 | 30 | 53 | 38 |
| Alcoholic Beverages & Tobacco | 14.8 | 6 | 6 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 4 |
| Restaurant & Hotels | 9.0 | 6 | 6 | 0 | 0 | 0 | 0 | 3 | 4 | 3 | 2 |
| II. Non-Food Group | 7.6 | 348 | 348 | 34 | 52 | 40 | 70 | 60 | 128 | 214 | 98 |
| Clothing & Footwear | 14.9 | 59 | 59 | 2 | 3 | 2 | 2 | 4 | 13 | 51 | 41 |
| Housing, Water, Elect, Gas & other Fuels | 6.5 | 36 | 36 | 3 | 6 | 1 | 4 | 16 | 21 | 16 | 5 |
| Furnishing & Household Equip. Maintenance etc | 7.6 | 69 | 69 | 1 | 3 | 4 | 16 | 10 | 38 | 54 | 12 |
| Health | 7.7 | 39 | 39 | 12 | 17 | 8 | 4 | 3 | 10 | 16 | 8 |
| Transport | 5.7 | 43 | 43 | 0 | 8 | 6 | 14 | 7 | 18 | 30 | 3 |
| Communication | 4.9 | 12 | 12 | 5 | 2 | 3 | 3 | 1 | 4 | 3 | 3 |
| Recreation & Culture | 8.4 | 39 | 39 | 6 | 8 | 9 | 16 | 9 | 5 | 15 | 10 |
| Education | 7.6 | 16 | 16 | 4 | 1 | 3 | 5 | 1 | 6 | 8 | 4 |
| Miscellaneous | 5.4 | 35 | 35 | 1 | 4 | 4 | 6 | 9 | 13 | 21 | 12 |
| Overall | 8.3 | 475 | 475 | 58 | 80 | 57 | 89 | 86 | 164 | 274 | 142 |

Note: Prices of 12 seasonal items were not reported during the month.

Table A3: Top and Bottom 15 Contributors to CPI Inflation (YoY) in July 2013

| Top 15 Contributors | | Weights | YoY Change | | Weighted Contribution |
|--|---------------------|--------------|-------------------|--------|------------------------------|
| Items/ Contributors | | | Jul-12 | Jul-13 | |
| Ranked by Weighted Contribution | | | | | |
| 1 | House Rent | 21.81 | 6.52 | 8.19 | 17.47 |
| 2 | Wheat Flour | 4.16 | 4.13 | 23.43 | 11.54 |
| 3 | Milk Fresh | 6.68 | 12.91 | 7.58 | 7.62 |
| 4 | Tomatoes | 0.44 | -31.94 | 247.08 | 7.24 |
| 5 | Fresh Vegetable | 1.68 | -4.14 | 19.56 | 4.14 |
| 6 | Motor Fuel | 3.03 | 8.36 | 10.64 | 3.78 |
| 7 | Onion | 0.53 | 50.93 | 61.82 | 3.63 |
| 8 | Education | 3.94 | 9.93 | 7.56 | 3.25 |
| 9 | Tea | 0.84 | 0.96 | 25.34 | 3.05 |
| 10 | Footwear | 1.55 | 16.08 | 18.78 | 2.96 |
| 11 | Cigarette | 1.39 | 18.20 | 14.96 | 2.81 |
| 12 | Cotton Cloth | 1.73 | 9.79 | 14.32 | 2.75 |
| 13 | Rice | 1.58 | 14.53 | 13.19 | 2.49 |
| 14 | Tailoring | 0.88 | 17.25 | 16.03 | 1.98 |
| 15 | Meat | 2.43 | 13.30 | 4.85 | 1.81 |
| Total | | 52.69 | | | 76.52 |
| Bottom 15 Contributors | | | | | |
| 1 | Spices | 0.54 | 13.86 | -19.38 | -2.02 |
| 2 | Fresh Fruits | 1.86 | 28.01 | -4.14 | -1.34 |
| 3 | Vegetable Ghee | 2.07 | 5.58 | -5.17 | -1.26 |
| 4 | Pulse Gram | 0.24 | 49.95 | -25.56 | -1.04 |
| 5 | Besan | 0.15 | 42.97 | -22.67 | -0.57 |
| 6 | Gram Whole | 0.16 | 31.52 | -18.50 | -0.49 |
| 7 | Cooking Oil | 1.75 | 13.54 | -1.42 | -0.29 |
| 8 | Chicken | 1.36 | 14.59 | -0.76 | -0.15 |
| 9 | Pulse Mash (Washed) | 0.21 | -12.19 | -3.88 | -0.11 |
| 10 | Sugar | 1.04 | -21.90 | -0.63 | -0.09 |
| 11 | Mustard Oil | 0.10 | 10.36 | -0.89 | -0.01 |
| 12 | Electricity | 4.40 | 16.39 | 0.00 | 0.00 |
| 13 | Medical Equipment | 0.01 | 13.80 | 8.42 | 0.01 |
| 14 | Kerosene Oil | 0.01 | 8.89 | 12.89 | 0.01 |
| 15 | Motor Vehicle Tax | 0.11 | 28.73 | 1.13 | 0.01 |
| Total | | 14.01 | | | -7.34 |

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Table A3.1: Top and Bottom 15 Contributors to CPI Inflation (MoM) in July 2013

| Top 15 Contributors Items/ Contributors | Weights | MoM Change | | Weighted Contribution |
|---|--------------|-------------------|--------|------------------------------|
| | | Jun-13 | Jul-13 | |
| Ranked by Weighted Contribution | | | | |
| 1 House Rent | 21.81 | 0.00 | 2.54 | 21.99 |
| 2 Tomatoes | 0.44 | 23.19 | 79.83 | 17.37 |
| 3 Fresh Fruits | 1.86 | -10.10 | 13.59 | 14.35 |
| 4 Cigarette | 1.39 | 1.82 | 11.88 | 8.84 |
| 5 Wheat Flour | 4.16 | 2.59 | 2.42 | 5.54 |
| 6 Potatoes | 0.47 | 19.16 | 24.87 | 5.43 |
| 7 Footwear | 1.55 | 6.16 | 6.28 | 4.26 |
| 8 Fresh Vegetable | 1.68 | -4.21 | 2.94 | 2.79 |
| 9 Motor Fuel | 3.03 | 2.16 | 1.51 | 2.25 |
| 10 Tailoring | 0.88 | 0.58 | 3.72 | 1.97 |
| 11 Milk Fresh | 6.68 | 1.54 | 0.44 | 1.84 |
| 12 Egg | 0.46 | -2.62 | 8.95 | 1.72 |
| 13 Onion | 0.53 | -14.18 | 4.09 | 1.44 |
| 14 Meat | 2.43 | 0.28 | 0.78 | 1.17 |
| 15 Ready Made Food | 1.23 | 0.33 | 1.53 | 1.09 |
| Total | 48.62 | | | 92.02 |
| Bottom 15 Contributors | | | | |
| 1 Chicken | 1.36 | 23.16 | -3.71 | -2.93 |
| 2 Personal Equipments | 0.84 | -2.28 | -2.62 | -1.52 |
| 3 Besan | 0.15 | -1.99 | -9.27 | -0.76 |
| 4 Pulse Gram | 0.24 | -1.27 | -5.27 | -0.65 |
| 5 Cooking Oil | 1.75 | 0.21 | -0.57 | -0.44 |
| 6 Spices | 0.54 | -0.30 | -1.15 | -0.38 |
| 7 Gram Whole | 0.16 | -0.02 | -3.96 | -0.34 |
| 8 Vegetable Ghee | 2.07 | 0.19 | -0.08 | -0.07 |
| 9 Pulse Mash (Washed) | 0.21 | 0.67 | -0.43 | -0.05 |
| 10 Woolen Readymade Garments | 0.40 | 0.00 | 0.00 | 0.00 |
| 11 Electricity | 4.40 | 0.00 | 0.00 | 0.00 |
| 12 Motor Vehicle Tax | 0.11 | 0.00 | 0.00 | 0.00 |
| 13 News Papers | 0.19 | 0.00 | 0.00 | 0.00 |
| 14 Honey | 0.04 | 0.00 | 0.00 | 0.00 |
| 15 Medical Equipment | 0.01 | 0.00 | 0.00 | 0.00 |
| Total | 12.48 | | | -7.14 |

Table A3.2: Top Fifteen Contributors to CPI Inflation (YoY) in July 2013

| Items/ Contributors | Weights | YoY Change | | Weighted Contribution |
|---------------------------------------|--------------|------------|--------|-----------------------|
| | | Jul-12 | Jul-13 | |
| A. Ranked by Percentage Change | | | | |
| 1 Tomatoes | 0.44 | -31.94 | 247.08 | 7.24 |
| 2 Onion | 0.53 | 50.93 | 61.82 | 3.63 |
| 3 Postal Services | 0.07 | 5.73 | 25.98 | 0.21 |
| 4 Tea | 0.84 | 0.96 | 25.34 | 3.05 |
| 5 Wheat Flour | 4.16 | 4.13 | 23.43 | 11.54 |
| 6 Wheat | 0.35 | 6.49 | 22.47 | 0.89 |
| 7 Fresh Vegetable | 1.68 | -4.14 | 19.56 | 4.14 |
| 8 Woolen Readymade Garments | 0.40 | 16.79 | 18.92 | 0.87 |
| 9 Footwear | 1.55 | 16.08 | 18.78 | 2.96 |
| 10 Gur | 0.02 | -15.09 | 18.19 | 0.06 |
| 11 Wheat Product | 0.10 | 2.97 | 17.95 | 0.20 |
| 12 Tailoring | 0.88 | 17.25 | 16.03 | 1.98 |
| 13 Dopatta | 0.44 | 20.39 | 14.99 | 0.84 |
| 14 Cigarette | 1.39 | 18.20 | 14.96 | 2.81 |
| 15 Cotton Cloth | 1.73 | 9.79 | 14.32 | 2.75 |
| Total | 14.58 | | | 43.18 |
| B. Ranked by Weights | | | | |
| 1 House Rent | 21.81 | 6.52 | 8.19 | 17.47 |
| 2 Milk Fresh | 6.68 | 12.91 | 7.58 | 7.62 |
| 3 Electricity | 4.40 | 16.39 | 0.00 | 0.00 |
| 4 Wheat Flour | 4.16 | 4.13 | 23.43 | 11.54 |
| 5 Education | 3.94 | 9.93 | 7.56 | 3.25 |
| 6 Communication & Apparatus | 3.15 | -0.07 | 4.29 | 1.18 |
| 7 Motor Fuel | 3.03 | 8.36 | 10.64 | 3.78 |
| 8 Transport Services | 2.70 | 15.57 | 1.22 | 0.47 |
| 9 Meat | 2.43 | 13.30 | 4.85 | 1.81 |
| 10 Vegetable Ghee | 2.07 | 5.58 | -5.17 | -1.26 |
| 11 Fresh Fruits | 1.86 | 28.01 | -4.14 | -1.34 |
| 12 Cooking Oil | 1.75 | 13.54 | -1.42 | -0.29 |
| 13 Cotton Cloth | 1.73 | 9.79 | 14.32 | 2.75 |
| 14 Fresh Vegetable | 1.68 | -4.14 | 19.56 | 4.14 |
| 15 Rice | 1.58 | 14.53 | 13.19 | 2.49 |
| Total | 63.00 | | | 53.61 |

Note: Weighted contribution is estimated by multiplying the weights by the price change of an item; this is then reported as a share in YoY change in CPI, which is 8.3 percent in July, 2013.

Table A3.3: Top Ten Contributors to CPI Food Inflation (YoY) in July 2013

| Items/ Contributors | Weights | YoY Change | | Weighted Contribution |
|---|-----------------|--------------|--------|-----------------------|
| | | Jul-12 | Jul-13 | |
| A. Ranked by Weighted Contribution | | | | |
| 1 | Wheat Flour | 4.16 | 4.13 | 23.43 |
| 2 | Milk Fresh | 6.68 | 12.91 | 7.58 |
| 3 | Tomatoes | 0.44 | -31.94 | 247.08 |
| 4 | Fresh Vegetable | 1.68 | -4.14 | 19.56 |
| 5 | Onion | 0.53 | 50.93 | 61.82 |
| 6 | Tea | 0.84 | 0.96 | 25.34 |
| 7 | Cigarette | 1.39 | 18.20 | 14.96 |
| 8 | Rice | 1.58 | 14.53 | 13.19 |
| 9 | Meat | 2.43 | 13.30 | 4.85 |
| 10 | Beverages | 1.20 | 7.90 | 10.97 |
| Total | | 20.94 | | 45.92 |
| B. Ranked by Percentage Change | | | | |
| 1 | Tomatoes | 0.44 | -31.94 | 247.08 |
| 2 | Onion | 0.53 | 50.93 | 61.82 |
| 3 | Tea | 0.84 | 0.96 | 25.34 |
| 4 | Wheat Flour | 4.16 | 4.13 | 23.43 |
| 5 | Wheat | 0.35 | 6.49 | 22.47 |
| 6 | Fresh Vegetable | 1.68 | -4.14 | 19.56 |
| 7 | Gur | 0.02 | -15.09 | 18.19 |
| 8 | Wheat Product | 0.10 | 2.97 | 17.95 |
| 9 | Cigarette | 1.39 | 18.20 | 14.96 |
| 10 | Rice | 1.58 | 14.53 | 13.19 |
| Total | | 11.10 | | 36.06 |
| C. Ranked by Weights | | | | |
| 1 | Milk Fresh | 6.68 | 12.91 | 7.58 |
| 2 | Wheat Flour | 4.16 | 4.13 | 23.43 |
| 3 | Meat | 2.43 | 13.30 | 4.85 |
| 4 | Vegetable Ghee | 2.07 | 5.58 | -5.17 |
| 5 | Fresh Fruits | 1.86 | 28.01 | -4.14 |
| 6 | Cooking Oil | 1.75 | 13.54 | -1.42 |
| 7 | Fresh Vegetable | 1.68 | -4.14 | 19.56 |
| 8 | Rice | 1.58 | 14.53 | 13.19 |
| 9 | Cigarette | 1.39 | 18.20 | 14.96 |
| 10 | Chicken | 1.36 | 14.59 | -0.76 |
| Total | | 24.98 | | 27.37 |
| Note: Weighted contribution is estimated by multiplying the weights by the price change of an item; this is then reported as a share in YoY change in CPI Food, which is 9.2 percent in July, 2013. | | | | |

Table A3.4: Top Ten Contributors to CPI Non-food Inflation (YoY) in July 2013

| Items/ Contributors | Weights | <u>YoY Change</u> | | Weighted Contribution |
|---|--------------|-------------------|--------|-----------------------|
| | | Jul-12 | Jul-13 | |
| A. Ranked by Weighted Contribution | | | | |
| 1 House Rent | 21.81 | 6.52 | 8.19 | 17.47 |
| 2 Motor Fuel | 3.03 | 8.36 | 10.64 | 3.78 |
| 3 Education | 3.94 | 9.93 | 7.56 | 3.25 |
| 4 Footwear | 1.55 | 16.08 | 18.78 | 2.96 |
| 5 Cotton Cloth | 1.73 | 9.79 | 14.32 | 2.75 |
| 6 Tailoring | 0.88 | 17.25 | 16.03 | 1.98 |
| 7 Ready Made Garment | 0.97 | 18.18 | 12.19 | 1.40 |
| 8 Woolen Cloth | 0.88 | 19.52 | 12.04 | 1.39 |
| 9 Text Books | 0.57 | 40.60 | 12.95 | 1.21 |
| 10 Household Servant | 1.04 | 35.04 | 8.92 | 1.20 |
| Total | 36.41 | | | 37.38 |
| B. Ranked by Percentage Change | | | | |
| 1 Postal Services | 0.07 | 5.73 | 25.98 | 0.21 |
| 2 Woolen Readymade Garments | 0.40 | 16.79 | 18.92 | 0.87 |
| 3 Footwear | 1.55 | 16.08 | 18.78 | 2.96 |
| 4 Tailoring | 0.88 | 17.25 | 16.03 | 1.98 |
| 5 Dopatta | 0.44 | 20.39 | 14.99 | 0.84 |
| 6 Cotton Cloth | 1.73 | 9.79 | 14.32 | 2.75 |
| 7 Cleaning & Laundering | 0.21 | 18.56 | 14.10 | 0.39 |
| 8 News Papers | 0.19 | 5.67 | 13.68 | 0.28 |
| 9 Text Books | 0.57 | 40.60 | 12.95 | 1.21 |
| 10 Kerosene Oil | 0.01 | 8.89 | 12.89 | 0.01 |
| Total | 6.05 | | | 11.50 |
| C. Ranked by Weights | | | | |
| 1 House Rent | 21.81 | 6.52 | 8.19 | 17.47 |
| 2 Electricity | 4.40 | 16.39 | 0.00 | 0.00 |
| 3 Education | 3.94 | 9.93 | 7.56 | 3.25 |
| 4 Communication & Apparatus | 3.15 | -0.07 | 4.29 | 1.18 |
| 5 Motor Fuel | 3.03 | 8.36 | 10.64 | 3.78 |
| 6 Transport Services | 2.70 | 15.57 | 1.22 | 0.47 |
| 7 Cotton Cloth | 1.73 | 9.79 | 14.32 | 2.75 |
| 8 Gas | 1.58 | -34.25 | 7.05 | 1.07 |
| 9 Footwear | 1.55 | 16.08 | 18.78 | 2.96 |
| 10 Personal Care | 1.49 | 15.45 | 6.44 | 1.20 |
| Total | 45.39 | | | 34.12 |

Note: Weighted contribution is estimated by multiplying the weights by the price change of an item; this is then reported as a share in YoY change in CPI Non-food, which is 7.6 percent in July, 2013.

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Table A4: Distribution of Price Changes (YoY) - Selected CPI Items: July 2013

| Groups | Decrease or no change | Subdued increase (Up to 5%) | Moderate increase (5 to 10%) | More than 10% increase |
|---|---|--|--|---|
| Food & Non-Alcoholic Beverages | Chillies Powd.National 200 Gm, Chillies Powder Loose, Pulse Gram, Besan Av. Qlty., Gram Whole Yellow Av.Qlty | Salt-Powdered (Lahori) Loose, Butter Local Packed, Squash-Mitchelles, Beef With Bone Av.Qlty., Bottlegourd, Cloves Loose Av.Qlty | Bread Plain Medium Size, Pulse Masoor (Washed), Pulse Masoor (Whole), Pickles Ahmed/Mitchelles, Tomato Ketchup Ahmed/Mitchelles | Tomatoes, Onion, Chillies Green, Tapal Danedar Tea 200 Gm, Ginger, Brinjal, Tea Lipton Yellow Label 200 Gm, Ice, Ice Cream Walls, Karaila, Wheat Flour Fine/Superior, Wheat Flour Avg. Qlty, Arvi, Wheat, Wheat Flour Bag |
| Alcoholic Beverages & Tobacco | | | Betel Nuts, Betel Leaves | Cigarettes K-20,S, Cigarettes Gold Leaf 20,S, Cigarettes Capstan 20,S, Cigarettes Morven Gold 20,S |
| Clothing & Footwear | Gents Spoung Chappal Bata, Ladies Spoung Chappal Bata, Ladies Sandal Bata | Pullover Ladies Oxford/Bon, Heavy Wt Suiting Law.Pur Av. Qlty | Second-Hand Coat For Men, School Uni. Pant, Shirt Boys, Pullover Gents Oxford/Bon, Foot Wear Local (Male), Azarband Cotton Av.Qlty | Gents Shoe, Art 1109 Servis, Gents Shoes Paul Bata, Sports Shoes, Secondhand Sweater For Men, Georgette Av.Qlty, Lungi/Dhoti(Cotton) Av.Qlty, Child Shoe Power Lite Bata, Brassier Sup. Qlty, Tailoring Charges Pant (Men), Shirting Av.Qlty., Secondhand Winter Jacket |
| Housing, Water, Elect. Gas & other Fuels | Elect. Charges Upto 50 Units, Elect. Charges Above 1000 Units Elect. Charges 01 - 100 Units | Sand (Black Pit Sand), Bricks (New) Ist Class, Bajree, Iron Bar (M.S. Bar) 1/2" | Mason (Raj) Wage Rate, Timber Shesham Log, Synthetic Enamel ICI, Cement Blocks (6"X8"X12"), Synthetic Enamel Robialac | Electrician Wage Rate(P/Pnt), Kerosene Oil, Plumber Wage Rate, Cement (Local), Unskilled Labour Wage Rat |
| Furnishing & Household Equip. Maintenance etc | Tawa Iron (Medium Size) Avg. Qlty, Electric Juicer, Carpet Plain Av. Qlty | Electric Blubs "0" Watt, Toilet Paper Roll (R.Petal), Pedestal Fan 22" Super Qlty, Water Cooler 9/10 Ltr., Mattress Single(4"Thick) | Dari Cotton (6"X2 1/2), Sofa Set Wooden With Foam, Chair Shesham Wood, Aluminum Cooking Pan, Elect. Iron Philips | Match Box (Small), Boot Polish Cherry/Kiwi 50 MI, Cleanser Powder Vim 1000 Gms, Washing Powder (Wheel/ Bonus), Finis 500 MI, Robin Blue (35 Gms), Tea Set Pak. China Wear 21 Pcs, Surf Excel 400 Gms Poly Bag |
| Health | Calcium Syrup Sandoz, Burnol Cream 30 Gm, Amoxil Capsule 250 Mg., Polyfix Eye Ointment, Daonil Tab. 5 Mg. | Sugar Test (Random/Fasting), Gripe-Water Woodwards, ECG Charges, Cac. 1000 Tab | Phenergan Syrup 120 ML, X-Ray (Chest) Charges, Cotton Bandage 2" - 4", Glycerin Small Bottle, Samiplast (1 Putty) | Hydrylic Syrup 120 MI. O.R.S. (Nimcol), Galgos-D (450 Gm), Sancos Syrup (50 MI), Trisil Tab., Doctor (MBBS) Clinic Fee, Ear Drops (Cardisporine) |
| Transport | Minibus Fare Min.Within City, Minibus Fare Max.Within City, CNG, Bus Fare Min (Within City) | Train Fare A/C Slp > 500K, Train Fare A/C Slp.101-500, Train Fare Eco. 1-100 Km., Train Fare Eco. 101-500 K, Train Fare Ist Slp. 1-100 | High Speed Diesel HSD, Cycle Overhauling Charges, Car Suzuki 800 Cc (W/O. Ac), Motor Cycle Service Charges, Tyre Car W/O Tube | Gas Cylinder S. Size (L.P.G), Petrol Super, Bus Fare Outside City (Non A/C) |
| Communication | Postal Envelope Domestic, Mobile Cell Charges | Postal Envelope For Saudi Arabia, Telephone Set Av. Qlty, Mobile Set Nokia/Sony/Ericsson Av.Qlty | Telephone Charges Local Call, U.M.S. Reg Charges Min., T.C.S. Ch. Telephone Charges Outside City, Fax Charges (Local), Internet Charges | Min.Within Zone, Postal Registration Charges |
| Recreation & Culture | V.C.P. Panasonic/LG/National, T.V. 20" Colored Sony, English Book BA/B.Sc, License Fee Domestic, Weekly "Mag" | Fountain Pen Hero/Wings/China, Paper Pool Scape (27"X17"), English Book Class V1, Radio With C.Player National, Pencil Goldfish/Deer | Maths Book Ist. Year (T.B. Board), Exercise Book Lined 80/10, Eng. Book Ist. Yr Complete Set, Urdu Book Class IX/X (T.B.Board), Ball Pen (Local) | Maths Book Calss V (T.B.Board), Urdu Book Class V (T.B.Board), Daily "Dawn", English Book Class IX or X, Daily "Jang", Daily "Nawa-e-Waqt", Cinema A/C High Class, Monthly "Naunehal Digest", Pen Ink Dolor 57 MI Bottle, Cinema Non-A/C High Class |
| Education | Coaching Charges For Class XI/ XII Commerce Group | I.T. Tuition Fees, Govt. Med. College Fee MBBS Ist Year, Coaching Charges For Class XI/ XII Science Group | Coaching Fee For Class IX/ X, Govt. Engg. Coll. Fee 1st Year, Pvt Med. College Pvt School Fee Eng. Med (Class-V), MBA Tuition Fee | Fee MBBS(Ist Year), Pvt Eng. College Fee (1st Year), Govt. University Fee MSc/ MA |
| Restaurants & Hotels | | | Cooked Dal (Av. Hotel), Chicken Biryani Full/Double, Tea Prepared (Ordinary) | Cooked Beef (Av. Hotel), Cooked Mutton (Av. Hotel) |
| Miscellaneous | Toothpaste Med Size Colgate 70Gms, Silver Tezabi 24 Ct, Gold Tezabi 24 Ct | Blade 7-o-Clock Steel (5), Wrist Watch Ladies Citizen, Wrist Watch Gents Citizen, Gel Medium Size | Toilet Soap Lux 95 Gms, Toothbrush Shield, Toilet Soap Lifebuoy 140 Gms, Disposable Razor Gillette-II | Perfume Med. Size Medora/Broche, Purse Ladies (Leather) Av. Qlty, Artificial Jewellery Set, Shaving Charges, Toothpaste Macleans 70 Gms, Trunk Medium Size, Hair Oil Amla/Chambeli |

Table A5: City- wise CPI Inflation by Income Groups, July 2013

| | Up to Rs: 8000 | | | | | | Rs 8001- 12000 | | | | | |
|----------------|----------------|------|----------|------|----------|------|----------------|------|------|------|----------|------|
| | General | | Food | | Non-Food | | General | | Food | | Non-Food | |
| | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY |
| 1 Rawalpindi | 2.2 | 9.9 | 2.5 | 10.5 | 1.8 | 9.1 | 2.3 | 9.7 | 2.7 | 10.1 | 1.8 | 9.3 |
| 2 Islamabad | 2.3 | 9.6 | 3.2 | 10.7 | 1.0 | 8.1 | 2.0 | 9.3 | 3.3 | 10.6 | 0.6 | 7.8 |
| 3 Lahore | 1.5 | 6.3 | 2.1 | 6.4 | 0.6 | 6.3 | 1.6 | 6.3 | 2.3 | 6.3 | 0.7 | 6.4 |
| 4 Gujranwala | 2.5 | 6.9 | 3.4 | 7.6 | 1.3 | 6.0 | 2.5 | 6.6 | 3.5 | 7.0 | 1.4 | 6.1 |
| 5 Sialkot | 2.3 | 9.0 | 2.7 | 8.4 | 1.8 | 9.9 | 2.3 | 8.5 | 2.8 | 7.7 | 1.7 | 9.6 |
| 6 Faisalabad | 1.4 | 7.4 | 1.6 | 8.8 | 1.0 | 5.5 | 1.2 | 6.9 | 1.6 | 8.2 | 0.7 | 5.4 |
| 7 Multan | 2.7 | 8.5 | 3.0 | 9.8 | 2.3 | 6.9 | 2.6 | 8.1 | 3.0 | 9.3 | 2.1 | 6.9 |
| 8 Sargodha | 1.2 | 7.1 | 0.5 | 6.2 | 2.0 | 8.2 | 1.2 | 7.1 | 0.5 | 6.0 | 1.9 | 8.1 |
| 9 Bahawalpur | 1.4 | 7.0 | 0.7 | 5.5 | 2.1 | 8.8 | 1.5 | 7.0 | 1.2 | 5.4 | 1.9 | 8.6 |
| 10 Karachi | 1.9 | 8.7 | 3.0 | 12.6 | 0.4 | 3.5 | 2.0 | 8.5 | 3.2 | 12.6 | 0.6 | 4.0 |
| 11 Hyderabad | 1.9 | 9.3 | 2.9 | 12.8 | 0.5 | 4.6 | 1.8 | 8.8 | 2.9 | 12.3 | 0.5 | 4.8 |
| 12 Sukkur | 2.4 | 8.6 | 3.5 | 9.2 | 0.9 | 7.9 | 2.4 | 8.1 | 3.7 | 8.4 | 1.1 | 7.7 |
| 13 Larkana | 3.6 | 12.5 | 4.3 | 11.5 | 2.8 | 13.8 | 3.1 | 12.5 | 3.7 | 11.8 | 2.5 | 13.1 |
| 14 Peshawar | 2.9 | 12.7 | 4.1 | 13.7 | 1.6 | 11.6 | 2.7 | 12.1 | 3.8 | 12.5 | 1.6 | 11.6 |
| 15 Bannu | 5.2 | 11.7 | 8.3 | 14.9 | 1.6 | 7.9 | 4.9 | 11.2 | 8.2 | 14.1 | 1.6 | 8.2 |
| 16 Quetta | 3.6 | 10.5 | 4.9 | 11.7 | 1.8 | 9.0 | 2.9 | 9.8 | 4.3 | 10.8 | 1.4 | 8.8 |
| 17 Khuzdar | 1.1 | 4.7 | 1.3 | 4.3 | 0.7 | 5.1 | 1.0 | 4.9 | 1.2 | 4.1 | 0.9 | 5.7 |
| Rs 12001-18000 | | | | | | | | | | | | |
| | General | | | | | | General | | | | | |
| | Food | | Non-Food | | Food | | Non-Food | | Food | | Non-Food | |
| | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY |
| 1 Rawalpindi | 2.5 | 10.3 | 2.9 | 10.2 | 2.1 | 10.5 | 2.4 | 9.7 | 3.1 | 10.1 | 1.7 | 9.5 |
| 2 Islamabad | 2.0 | 9.1 | 3.3 | 10.0 | 0.7 | 8.2 | 2.0 | 8.6 | 3.6 | 9.8 | 0.5 | 7.5 |
| 3 Lahore | 1.6 | 6.5 | 2.2 | 6.2 | 0.8 | 6.9 | 1.4 | 6.1 | 2.2 | 6.0 | 0.7 | 6.1 |
| 4 Gujranwala | 2.6 | 6.6 | 3.6 | 6.8 | 1.6 | 6.5 | 2.5 | 6.0 | 3.8 | 6.2 | 1.4 | 5.8 |
| 5 Sialkot | 2.3 | 9.0 | 2.8 | 8.0 | 1.8 | 10.1 | 2.2 | 8.2 | 2.9 | 7.5 | 1.5 | 8.8 |
| 6 Faisalabad | 1.2 | 6.9 | 1.6 | 8.0 | 0.8 | 5.8 | 1.2 | 6.1 | 1.9 | 7.6 | 0.5 | 4.8 |
| 7 Multan | 2.7 | 8.5 | 3.0 | 9.2 | 2.3 | 7.8 | 2.4 | 7.7 | 3.0 | 8.9 | 1.9 | 6.7 |
| 8 Sargodha | 1.3 | 7.3 | 0.6 | 5.8 | 1.9 | 8.6 | 1.1 | 6.8 | 0.6 | 5.4 | 1.6 | 7.8 |
| 9 Bahawalpur | 1.8 | 7.7 | 1.6 | 5.9 | 2.0 | 9.4 | 1.7 | 7.3 | 1.8 | 5.8 | 1.6 | 8.4 |
| 10 Karachi | 2.2 | 8.8 | 3.3 | 12.6 | 0.9 | 4.9 | 2.0 | 8.2 | 3.2 | 12.3 | 0.8 | 4.6 |
| 11 Hyderabad | 2.0 | 9.0 | 3.3 | 12.3 | 0.5 | 5.7 | 1.8 | 8.2 | 3.4 | 11.9 | 0.4 | 4.9 |
| 12 Sukkur | 2.4 | 8.1 | 3.6 | 8.2 | 1.2 | 8.0 | 2.1 | 7.7 | 3.6 | 8.2 | 0.9 | 7.2 |
| 13 Larkana | 3.1 | 12.7 | 3.7 | 11.9 | 2.5 | 13.6 | 2.7 | 12.1 | 3.4 | 12.1 | 2.1 | 12.0 |
| 14 Peshawar | 2.7 | 12.3 | 4.0 | 12.5 | 1.6 | 12.1 | 2.6 | 11.2 | 4.2 | 11.8 | 1.3 | 10.7 |
| 15 Bannu | 5.1 | 11.8 | 8.4 | 14.7 | 2.0 | 9.0 | 4.8 | 10.9 | 8.6 | 13.9 | 1.7 | 8.4 |
| 16 Quetta | 2.8 | 9.6 | 4.1 | 9.7 | 1.5 | 9.5 | 2.7 | 9.1 | 4.2 | 9.5 | 1.4 | 8.9 |
| 17 Khuzdar | 0.9 | 5.1 | 0.9 | 4.0 | 0.8 | 6.2 | 0.7 | 4.8 | 0.8 | 3.6 | 0.6 | 5.8 |
| Above Rs 35000 | | | | | | | | | | | | |
| | General | | | | | | General | | | | | |
| | Food | | Non-Food | | Food | | Non-Food | | Food | | Non-Food | |
| | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY | MoM | YoY |
| 1 Rawalpindi | 2.2 | 9.5 | 2.9 | 9.7 | 1.8 | 9.4 | 2.2 | 9.6 | 2.9 | 9.9 | 1.8 | 9.4 |
| 2 Islamabad | 1.6 | 7.5 | 3.5 | 8.9 | 0.6 | 6.6 | 1.7 | 7.6 | 3.5 | 9.2 | 0.2 | 6.4 |
| 3 Lahore | 1.3 | 5.5 | 2.3 | 5.6 | 0.7 | 5.4 | 1.4 | 5.8 | 2.3 | 5.9 | 0.7 | 5.8 |
| 4 Gujranwala | 2.3 | 5.3 | 3.9 | 5.5 | 1.5 | 5.2 | 2.4 | 6.0 | 3.7 | 6.4 | 1.5 | 5.7 |
| 5 Sialkot | 2.1 | 8.0 | 2.8 | 7.5 | 1.8 | 8.2 | 2.2 | 8.2 | 2.8 | 7.6 | 1.7 | 8.7 |
| 6 Faisalabad | 1.0 | 5.0 | 1.7 | 7.1 | 0.5 | 3.9 | 1.1 | 6.1 | 1.7 | 7.8 | 0.7 | 4.8 |
| 7 Multan | 2.1 | 7.0 | 2.7 | 8.4 | 1.7 | 6.3 | 2.3 | 7.6 | 2.9 | 8.9 | 1.9 | 6.6 |
| 8 Sargodha | 1.1 | 7.6 | 0.5 | 5.9 | 1.4 | 8.4 | 1.2 | 7.1 | 0.6 | 5.9 | 1.6 | 7.9 |
| 9 Bahawalpur | 2.1 | 7.5 | 2.6 | 6.5 | 1.8 | 8.0 | 1.8 | 7.3 | 1.7 | 5.9 | 1.8 | 8.2 |
| 10 Karachi | 1.5 | 8.0 | 3.1 | 11.5 | 0.6 | 6.2 | 1.7 | 8.2 | 3.2 | 12.0 | 0.6 | 5.4 |
| 11 Hyderabad | 1.6 | 7.0 | 3.6 | 11.4 | 0.5 | 4.7 | 1.8 | 8.0 | 3.3 | 12.0 | 0.6 | 5.2 |
| 12 Sukkur | 1.9 | 6.8 | 3.5 | 8.0 | 1.1 | 6.3 | 2.2 | 7.7 | 3.6 | 8.4 | 1.2 | 7.2 |
| 13 Larkana | 2.3 | 11.1 | 3.0 | 11.6 | 2.0 | 10.9 | 2.9 | 12.1 | 3.7 | 11.9 | 2.4 | 12.3 |
| 14 Peshawar | 2.2 | 10.0 | 4.3 | 11.1 | 1.1 | 9.5 | 2.5 | 11.0 | 4.1 | 12.1 | 1.3 | 10.3 |
| 15 Bannu | 3.5 | 8.9 | 7.0 | 12.5 | 1.7 | 7.2 | 4.7 | 10.8 | 8.2 | 14.1 | 2.3 | 8.5 |
| 16 Quetta | 2.5 | 8.7 | 4.1 | 9.3 | 1.8 | 8.4 | 2.7 | 9.2 | 4.2 | 9.8 | 1.7 | 8.8 |
| 17 Khuzdar | 0.5 | 3.8 | 1.4 | 3.0 | 0.0 | 4.2 | 0.9 | 4.7 | 1.1 | 4.0 | 0.7 | 5.2 |

Table A6: City- wise CPI Inflation (YoY) July, 2013

| | High inflation cities | | | | Low inflation cities | | |
|-----------------|-----------------------|------|----------|------------|----------------------|------|----------|
| | General | Food | Non-food | | General | Food | Non-food |
| D.I.Khan | 13.9 | 16.7 | 12.0 | Sialkot | 8.2 | 7.6 | 8.7 |
| Mithi | 13.2 | 10.6 | 14.8 | Karachi | 8.2 | 12.0 | 5.4 |
| Mardan | 13.0 | 14.7 | 12.0 | Wazirabad | 8.2 | 8.1 | 8.2 |
| Mingora | 12.2 | 12.3 | 12.1 | Hyderabad | 8.0 | 12.0 | 5.2 |
| Larkana | 12.1 | 11.9 | 12.3 | Jhang | 8.0 | 5.7 | 9.5 |
| Rahim Yar Khan | 11.7 | 13.4 | 10.5 | Sukkur | 7.7 | 8.4 | 7.2 |
| D.G. Khan | 11.2 | 8.2 | 13.3 | Islamabad | 7.6 | 9.2 | 6.4 |
| Peshawar | 11.0 | 12.1 | 10.3 | Multan | 7.6 | 8.9 | 6.6 |
| Mianwali | 10.8 | 9.3 | 11.9 | Bahawalpur | 7.3 | 5.9 | 8.2 |
| Bannu | 10.8 | 14.1 | 8.5 | Sargodha | 7.1 | 5.9 | 7.9 |
| Vehari | 10.5 | 13.7 | 8.2 | Abbotabad | 7.1 | 9.2 | 5.7 |
| Loralai&Cantt | 10.4 | 11.9 | 9.4 | Faisalabad | 6.1 | 7.8 | 4.8 |
| Dera Mrd.Jamali | 10.3 | 12.2 | 8.9 | Gujranwala | 6.0 | 6.4 | 5.7 |
| Turbat | 10.1 | 8.8 | 10.9 | Lahore | 5.8 | 5.9 | 5.8 |
| Nawabshah | 9.9 | 12.2 | 8.3 | Khuzdar | 4.7 | 4.0 | 5.2 |
| Muzaffargarh | 9.7 | 10.6 | 9.1 | | | | |
| Bahawalnagar | 9.6 | 11.6 | 8.3 | | | | |
| Rawalpindi | 9.6 | 9.9 | 9.4 | | | | |
| Quetta | 9.2 | 9.8 | 8.8 | | | | |
| Dadu | 8.6 | 12.2 | 6.2 | | | | |
| Sahiwal | 8.6 | 7.9 | 9.1 | | | | |
| Gawadar | 8.6 | 10.0 | 7.5 | | | | |
| Mir Pur Khas | 8.5 | 9.1 | 8.1 | | | | |
| Attock | 8.4 | 10.1 | 7.2 | | | | |
| Jehlum | 8.3 | 8.0 | 8.6 | | | | |

Note: High inflation refers to equal or above average inflation, and low inflation refers to below average

Table A7: Income Group-wise Inflation (percent)

| | MoM | | | YoY | | |
|---------------------------------|--------|--------|--------|--------|--------|--------|
| | Jul-12 | Jun-13 | Jul-13 | Jul-12 | Jun-13 | Jul-13 |
| <u>Up to Rs. 8000</u> | | | | | | |
| General | 0.9 | 0.9 | 2.3 | 8.9 | 7.9 | 9.4 |
| Food | 1.5 | 1.3 | 3.0 | 7.4 | 8.6 | 10.2 |
| Non-food | 0.1 | 0.5 | 1.4 | 11.0 | 7.0 | 8.4 |
| <u>Rs. 8001- 12000</u> | | | | | | |
| General | 0.9 | 0.9 | 2.2 | 10.2 | 7.5 | 8.9 |
| Food | 1.6 | 1.2 | 2.9 | 8.0 | 8.3 | 9.7 |
| Non-food | 0.0 | 0.6 | 1.4 | 12.8 | 6.6 | 8.0 |
| <u>Rs. 12001- 18000</u> | | | | | | |
| General | 1.0 | 0.9 | 2.2 | 10.1 | 7.3 | 8.6 |
| Food | 1.7 | 1.2 | 3.0 | 8.6 | 8.1 | 9.5 |
| Non-food | 0.2 | 0.5 | 1.4 | 11.7 | 6.6 | 7.8 |
| <u>Rs. 18001- 35000</u> | | | | | | |
| General | -0.6 | 0.8 | 2.1 | 9.0 | 5.6 | 8.5 |
| Food | 1.8 | 1.1 | 3.1 | 9.1 | 7.9 | 9.2 |
| Non-food | -2.6 | 0.5 | 1.3 | 8.8 | 3.7 | 7.8 |
| <u>Above Rs. 35000</u> | | | | | | |
| General | -1.3 | 0.6 | 1.9 | 9.2 | 4.5 | 7.8 |
| Food | 1.9 | 0.9 | 3.0 | 10.0 | 7.5 | 8.7 |
| Non-food | -2.9 | 0.4 | 1.3 | 8.7 | 3.0 | 7.4 |
| <u>All income groups</u> | | | | | | |
| General | -0.2 | 0.7 | 2.0 | 9.6 | 5.9 | 8.3 |
| Food | 1.8 | 1.1 | 3.0 | 9.1 | 7.9 | 9.2 |
| Non-food | -1.7 | 0.5 | 1.3 | 10.0 | 4.4 | 7.6 |

Table A8: SPI Item-wise Price Movements

| Sr.No. | Items | Unit | Prices | Percentage change | |
|----------------|-------------------------------------|--------|--------------|-------------------|-------------|
| | | | Jul-13 | YoY | MoM |
| 1 | Wheat | 10Kg. | 331.6 | 22.3 | 3.7 |
| 2 | Wheat Flour Bag | 10Kg. | 380.8 | 24.4 | 3.1 |
| 3 | Rice Basmati Broken | Kg. | 73.3 | 11.5 | 1.7 |
| 4 | Rice Irri-6 | Kg. | 53.3 | 10.5 | 3.2 |
| 5 | Bread Plain Med. Size (340-400 Gm.) | Each | 35.7 | 9.7 | 0.4 |
| 6 | Beef | Kg. | 276.3 | 4.9 | 1.0 |
| 7 | Mutton | Kg. | 543.7 | 7.5 | 0.6 |
| 8 | Chicken Live (Farm) | Kg. | 167.9 | 0.4 | -5.0 |
| 9 | Milk Fresh | Litr | 68.0 | 6.8 | 0.9 |
| 10 | Curd | Kg. | 79.2 | 6.2 | 0.9 |
| 11 | Milk Powdered Nido | 500G | 290.0 | 0.9 | 0.0 |
| 12 | Egg Hen (Farm) | Doz. | 80.3 | 4.1 | 3.5 |
| 13 | Mustard Oil | Kg. | 182.2 | -2.6 | -0.3 |
| 14 | Cooking Oil (Tin) | 2.5Ltr | 537.4 | -2.1 | 0.0 |
| 15 | Veg. Ghee (Tin) | 2.5Kg. | 508.8 | -5.6 | 0.8 |
| 16 | Veg.Ghee Loose | Kg. | 158.2 | -6.7 | 0.5 |
| 17 | Bananas | Doz. | 84.8 | -16.4 | 13.7 |
| 18 | Masoor Pulse Washed | Kg. | 110.4 | 10.3 | 3.1 |
| 19 | Moong Pulse Washed | Kg. | 123.9 | 2.3 | 4.0 |
| 20 | Mash Pulse Washed | Kg. | 130.2 | -5.1 | -0.4 |
| 21 | Gram Pulse Washed | Kg. | 78.7 | -27.6 | -5.8 |
| 22 | Potatoes | Kg. | 28.9 | -1.7 | 15.5 |
| 23 | Onions | Kg. | 40.6 | 48.8 | 7.0 |
| 24 | Tomatoes | Kg. | 87.8 | 182.7 | 47.2 |
| 25 | Sugar | Kg. | 54.4 | 0.2 | 0.4 |
| 26 | Gur | Kg. | 84.9 | 16.2 | 1.7 |
| 27 | Salt Powdered Loose (Lahori) | Kg. | 9.1 | 6.7 | 0.3 |
| 28 | Red Chilies Powder Loose | Kg. | 215.1 | -28.5 | -0.1 |
| 29 | Garlic | Kg. | 120.5 | 16.2 | 1.5 |
| 30 | Tea (Yellow Label) | 200Gm. | 171.7 | 28.8 | 1.1 |
| 31 | Cooked Beef Plate | Each | 72.2 | 10.7 | 1.2 |
| 32 | Cooked Dal Plate | Each | 42.6 | 8.6 | 1.7 |
| 33 | Tea Prepared (Sada) | Cup | 15.9 | 6.4 | 0.4 |
| 34 | Cigarettes K-2 (20'S) | 20'S | 37.4 | 16.8 | 10.4 |
| 35 | Long Cloth (Coarse Latha) | Mtr. | 170.3 | 21.9 | 0.7 |
| 36 | Shirting | Mtr. | 139.1 | 21.2 | 1.6 |
| 37 | Lawn | Mtr. | 189.7 | 18.4 | 3.5 |
| 38 | Georgette (Voil Printed) | Mtr. | 109.6 | 14.4 | 0.8 |
| 39 | Sandal Gents Bata | Pair | 599.0 | 20.0 | 0.0 |
| 40 | Chappal Spong.Bata (Gents) | Pair | 179.0 | 0.0 | 0.0 |
| 41 | Sandal Ladies Bata | Pair | 499.0 | 25.1 | 0.0 |
| 42 | Electric Charges 1-50 | Unit | 2.0 | 0.0 | 0.0 |
| 43 | Gas Charges upto 3.3719 | Mmbtu | 124.2 | 7.1 | 0.6 |
| 44 | Kerosene | Litr | 117.0 | 12.6 | 1.9 |
| 45 | Firewood | 40Kg | 507.8 | 7.1 | 0.4 |
| 46 | Energy Savor 14 Watts | Each | 160.1 | 9.7 | 0.8 |
| 47 | Washing Soap (200-250 Gm.) | Cake | 22.3 | 11.7 | 0.4 |
| 48 | Match Box | Each | 1.2 | 8.3 | 2.6 |
| 49 | Petrol | Litr | 103.5 | 19.7 | 2.0 |
| 50 | Diesel | Litr | 108.5 | 10.4 | 2.2 |
| 51 | L.P.G. (11 Kg Cylinder.) | Each | 1488.2 | 20.8 | 1.6 |
| 52 | Tele. Local Call | Call | 3.9 | 9.7 | 0.0 |
| 53 | Bath Soap Lifebuoy (Standard) | Cake | 35.0 | 9.4 | 2.2 |
| Maximum | | | 182.7 | 47.2 | |
| Median | | | | 9.4 | 0.9 |
| Minimum | | | | -28.5 | -5.8 |

Table A9: Distribution of Price Changes (YoY) - WPI Items: July 2013

| Groups | Decrease or no change | Subdued increase (Up to 5%) | Moderate increase (5 to 10%) | More than 10% increase |
|--|---|---|---|---|
| Agriculture, Forestry & Fishery Products | Pulses, Fresh Fruits, Cotton Seeds, Poultry, Other Oil Seeds, Sugar Crops | Hides and Fur Skins Raw | Millet/Bajra, Fibre Crops, Eggs, Milk from Bovine Animals, Edible Roots/Potatoes, Unmanufactured Tobacco | Vegetables, Fish Live Fresh or Chilled, Stimulant and Spice Crops, Sorghum/Jowar, Wheat, Maize, Fuel Wood in Logs, Rice, Raw Animal Material/Wool, Dry Fruits |
| Ores & Minerals, Electricity Gas & Water | Electrical Energy | | Natural Gas Liquefied | Salt & Pure Sodium Chloride, Coal not Agglomerated |
| Food Products, Beverages and Tobacco, Textiles, Apparel and Leather Products | Spices, Other Cereal Flour, Synthetic Carpets, Vegetable Ghee, Chocolate, Woolen Carpets | Cotton Fabrics, Sugar Refined, Meat of Animals, Beverages, Sugar Confectionary, Processed Liquid Milk, Vegetable Oil Refined, Other Food Products | Footwear, Dried Fruits & Nuts, Nylon Yarn, Mineral Water, Cotton Yarn, Vegetables & Fruit Juices, Quilts, Dairy Products N.E.C, Blended Yarn, Other Fabrics, Milk and Cream in Solid Form, Fruit Juices | Other Leather N.E.C, Wheat Flour, Woven Fabrics, Leather without Hairs, Ice Cream, Coffee and Tea, Oil Cakes, Ready Made Garments, Tobacco Products, Bed Sheets, Hosiery Products, Blankets, Silk and Rayon Fabrics, Towels |
| Other Transportable Goods except Metal Products, Machinery and Equipments | Furnace Oil, Other Glass Articles, Coke | Plastic Products, Medicines, Dying Materials, Fertilizers | Diesel Oil, Ceramics and Sanitary, Timber, Bricks Blocks and Tiles, Cement, Bed Foams, Printing Paper, Mobil Oil, Paints & Varnishes, Insecticides, Auto Tyres | Hard Board, Motor Spirit, Matches, Pesticides, Soaps & Detergent, Chemicals, Glass Sheets, Kerosene Oil |
| Metal Product Machinery & Equipment | Radio and Television, Steel Bars & Sheets, Motor Cycles, Tractors, Pig Iron, Engines and Motors, Vacuum Pumps, Concrete Mixer, Lathe Machines | Chuff Cutter, Steel Products, Motor Vehicles, Air Conditioners, Cultivators, Electrical Wires, Bicycles | Refrige, Wash& Sew Mach,Iron,Fan, Lighting Equipments, Pipe Fittings | |

Table A10: Consumer Price Index Numbers by Major Groups and Composite Commodities

| Items and specification | Weights | Index | | |
|--|---------------|---------------|---------------|---------------|
| | | Jul-12 | Jun-13 | Jul-13 |
| General | 100.00 | 169.57 | 179.94 | 183.58 |
| Food & Non-Alcoholic Beverages. | 34.83 | 190.58 | 202.11 | 207.61 |
| 1 Wheat | 0.35 | 159.07 | 188.23 | 194.81 |
| 2 Wheat Flour | 4.16 | 165.74 | 199.73 | 204.57 |
| 3 Wheat Product | 0.10 | 162.45 | 189.19 | 191.61 |
| 4 Besan | 0.15 | 233.88 | 199.32 | 180.85 |
| 5 Rice | 1.58 | 167.07 | 186.75 | 189.10 |
| 6 Cereals | 0.16 | 196.40 | 216.83 | 219.23 |
| 7 Bakery & Confectionary | 1.16 | 170.02 | 183.07 | 183.59 |
| 8 Nimco | 0.46 | 191.57 | 206.43 | 208.18 |
| 9 Meat | 2.43 | 214.77 | 223.43 | 225.18 |
| 10 Chicken | 1.36 | 205.11 | 211.41 | 203.56 |
| 11 Fish | 0.30 | 186.25 | 200.15 | 200.39 |
| 12 Milk Fresh | 6.68 | 210.80 | 225.78 | 226.78 |
| 13 Milk Product | 0.63 | 205.90 | 216.57 | 219.34 |
| 14 Milk Powder | 0.11 | 180.01 | 190.81 | 192.03 |
| 15 Egg | 0.46 | 154.16 | 153.31 | 167.03 |
| 16 Mustard Oil | 0.10 | 160.06 | 158.43 | 158.64 |
| 17 Cooking Oil | 1.75 | 163.95 | 162.54 | 161.62 |
| 18 Vegetable Ghee | 2.07 | 164.31 | 155.94 | 155.82 |
| 19 Dry Fruits | 0.25 | 199.15 | 214.95 | 217.86 |
| 20 Fresh Fruits | 1.86 | 244.15 | 206.05 | 234.05 |
| 21 Pulse Masoor | 0.27 | 143.47 | 154.35 | 157.42 |
| 22 Pulse Moong | 0.23 | 230.89 | 224.06 | 237.14 |
| 23 Pulse Mash (Washed) | 0.21 | 194.55 | 187.81 | 187.00 |
| 24 Pulse Gram | 0.24 | 241.04 | 189.40 | 179.42 |
| 25 Gram Whole | 0.16 | 229.76 | 194.98 | 187.26 |
| 26 Beans | 0.03 | 205.15 | 221.84 | 228.13 |
| 27 Potatoes | 0.47 | 189.45 | 169.11 | 211.16 |
| 28 Onion | 0.53 | 154.19 | 239.70 | 249.51 |
| 29 Tomatoes | 0.44 | 92.84 | 179.19 | 322.23 |
| 30 Fresh Vegetable | 1.68 | 176.65 | 205.17 | 211.21 |
| 31 Sugar | 1.04 | 197.18 | 194.50 | 195.93 |
| 32 Gur | 0.02 | 221.22 | 250.06 | 261.46 |
| 33 Honey | 0.04 | 237.13 | 256.65 | 256.65 |
| 34 Sweet Meet | 0.25 | 200.89 | 210.79 | 211.81 |
| 35 Beverages | 1.20 | 168.43 | 184.25 | 186.90 |
| 36 Jam, Tomato Ketchup & Pickle | 0.25 | 172.43 | 185.63 | 187.26 |
| 37 Condiments | 0.27 | 210.32 | 216.64 | 217.51 |
| 38 Spices | 0.54 | 268.98 | 219.37 | 216.85 |
| 39 Tea | 0.84 | 201.61 | 248.27 | 252.69 |
| Alcoholic Beverages, Tobacco | 1.41 | 189.36 | 194.66 | 217.46 |
| 40 Cigarette | 1.39 | 189.57 | 194.79 | 217.93 |
| 41 Betel Leaves & Nuts | 0.02 | 176.60 | 186.64 | 188.57 |
| Clothing & Footwear | 7.57 | 165.67 | 186.46 | 190.42 |
| 42 Cotton Cloth | 1.73 | 155.55 | 176.47 | 177.82 |
| 43 Woolen Cloth | 0.88 | 184.64 | 206.49 | 206.87 |
| 44 Ready Made Garment | 0.97 | 164.95 | 182.09 | 185.06 |
| 45 Woolen Readymade Garments | 0.40 | 161.83 | 192.45 | 192.45 |
| 46 Hosiery | 0.51 | 173.15 | 194.30 | 195.40 |
| 47 Dopatta | 0.44 | 178.69 | 203.75 | 205.47 |
| 48 Cleaning & Laundering | 0.21 | 182.46 | 206.24 | 208.19 |

Table A10: Consumer Price Index Numbers by Major Groups and Composite Commodities

| Items and specification | Weights | Index | | |
|---|----------------|---------------|---------------|---------------|
| | | Jul-12 | Jun-13 | Jul-13 |
| 49 Tailoring | 0.88 | 195.36 | 218.55 | 226.68 |
| 50 Footwear | 1.55 | 142.27 | 159.00 | 168.99 |
| Housing,Water,Elect,Gas & Other Fuel | 29.41 | 147.92 | 154.65 | 157.54 |
| 51 House Rent | 21.81 | 137.02 | 144.57 | 148.24 |
| 52 Construction Input Item | 0.56 | 198.90 | 210.12 | 214.61 |
| 53 Construction Wage Rate | 0.33 | 167.76 | 181.81 | 185.33 |
| 54 Water Supply | 0.50 | 133.23 | 139.65 | 141.36 |
| 55 Electricity | 4.40 | 196.37 | 196.37 | 196.37 |
| 56 Gas | 1.58 | 134.34 | 143.81 | 143.81 |
| 57 Kerosene Oil | 0.01 | 243.58 | 267.67 | 274.98 |
| 58 Fire Wood Whole | 0.23 | 225.49 | 243.22 | 244.09 |
| Furnished H.Hold Equip.& Maint. Etc | 4.21 | 174.01 | 185.82 | 187.23 |
| 59 Furniture | 0.33 | 163.36 | 174.82 | 177.21 |
| 60 Household Textile | 0.65 | 170.35 | 180.81 | 182.53 |
| 61 Household Equipment | 0.59 | 155.52 | 162.40 | 162.88 |
| 62 Utensils | 0.32 | 173.16 | 184.55 | 185.91 |
| 63 Plastic Products | 0.25 | 173.73 | 181.60 | 183.11 |
| 64 Washing Soap & Detergent | 0.79 | 189.47 | 203.46 | 204.48 |
| 65 Sewing Needle & Dry Cell | 0.15 | 148.64 | 166.36 | 166.67 |
| 66 Household Servant | 1.04 | 181.30 | 195.58 | 197.48 |
| 67 Marriage Hall Charges | 0.08 | 190.06 | 200.04 | 201.35 |
| Health | 2.19 | 149.84 | 160.93 | 161.45 |
| 68 Drug Medicine | 1.27 | 132.72 | 140.94 | 141.18 |
| 69 Medical Equipment | 0.01 | 189.54 | 205.49 | 205.49 |
| 70 Doctor (MBBS) Clinic Fee | 0.59 | 185.15 | 203.36 | 204.66 |
| 71 Medical Test | 0.32 | 151.52 | 160.67 | 160.87 |
| Transport | 7.20 | 178.58 | 187.25 | 188.83 |
| 72 Motor Vehicle | 0.66 | 150.32 | 156.71 | 158.19 |
| 73 Motor Vehicle Accessories | 0.24 | 203.03 | 213.67 | 217.18 |
| 74 Motor Fuel | 3.03 | 164.31 | 179.10 | 181.80 |
| 75 Mechanical Service | 0.46 | 179.09 | 189.24 | 190.80 |
| 76 Motor Vehicle Tax | 0.11 | 152.02 | 153.74 | 153.74 |
| 77 Transport Services | 2.70 | 200.29 | 202.50 | 202.74 |
| Communication | 3.22 | 123.56 | 128.73 | 129.62 |
| 78 Postal Services | 0.07 | 171.37 | 175.16 | 215.89 |
| 79 Communication & Apparatus | 3.15 | 122.55 | 127.75 | 127.81 |
| Recreation & Culture | 2.02 | 164.63 | 177.84 | 178.48 |
| 80 Recreation & Culture | 0.86 | 121.45 | 122.65 | 123.55 |
| 81 Text Books | 0.57 | 230.22 | 260.03 | 260.03 |
| 82 News Papers | 0.19 | 149.97 | 170.49 | 170.49 |
| 83 Stationery | 0.40 | 171.42 | 183.35 | 184.67 |
| Education | 3.94 | 152.71 | 163.54 | 164.25 |
| 84 Education | 3.94 | 152.71 | 163.54 | 164.25 |
| Restaurants And Hotels | 1.23 | 196.24 | 210.64 | 213.87 |
| 85 Ready Made Food | 1.23 | 196.24 | 210.64 | 213.87 |
| Miscellaneous Goods And Services | 2.76 | 190.67 | 202.39 | 200.91 |
| 86 Personal Care | 1.49 | 174.64 | 185.79 | 185.88 |
| 87 Cosmetics | 0.39 | 148.03 | 163.22 | 166.59 |
| 88 Blades | 0.03 | 168.82 | 176.40 | 177.70 |
| 89 Personal Equipments | 0.84 | 239.33 | 250.63 | 244.06 |

Table A11: Wholesale Price Index Numbers by Major Groups and Composite Commodities

| Items and Specifications | Index | | |
|---|---------------|---------------|---------------|
| | Jul-12 | Jun-13 | Jul-13 |
| General | 190.05 | 199.21 | 202.49 |
| Agriculture Forestry & Fishery | 197.57 | 209.16 | 214.77 |
| 1 Wheat | 164.32 | 198.50 | 206.16 |
| 2 Maize | 166.89 | 189.41 | 193.96 |
| 3 Rice | 157.90 | 174.41 | 177.08 |
| 4 Sorghum/Jowar | 201.88 | 259.71 | 270.15 |
| 5 Millet/Bajra | 176.57 | 191.77 | 193.87 |
| 6 Vegetables | 185.97 | 241.43 | 273.46 |
| 7 Fresh Fruits | 287.82 | 227.05 | 253.15 |
| 8 Dry Fruits | 173.89 | 194.73 | 192.88 |
| 9 Cotton Seeds | 181.23 | 164.31 | 165.17 |
| 10 Other Oil Seeds | 174.82 | 170.04 | 169.50 |
| 11 Edible Roots/ Potatoes | 178.09 | 149.12 | 188.79 |
| 12 Stimulant And Spice Crops | 170.53 | 212.17 | 231.75 |
| 13 Pulses | 221.59 | 186.44 | 184.78 |
| 14 Sugar Crops | 267.92 | 267.92 | 267.92 |
| 15 Fibre Crops | 194.22 | 207.94 | 210.28 |
| 16 Unmanufactured Tobacco | 167.67 | 176.22 | 176.34 |
| 17 Poultry | 222.42 | 224.76 | 215.62 |
| 18 Milk From Bovine Animals | 207.47 | 218.54 | 220.27 |
| 19 Eggs | 155.50 | 153.34 | 167.37 |
| 20 Raw Animal Material/Wool | 135.38 | 150.66 | 151.73 |
| 21 Hides And Fur Skins, Raw | 137.11 | 141.49 | 140.52 |
| 22 Fuel Wood In Logs | 203.50 | 228.51 | 230.69 |
| 23 Fishes Live Fresh Or Chilled | 171.26 | 240.87 | 247.49 |
| Ores/Minerals, Gas & Elect. | 206.19 | 214.86 | 215.17 |
| 24 Coal Not Agglomerated | 196.08 | 223.53 | 223.53 |
| 25 Natural Gas Liquefied | 188.89 | 203.09 | 203.74 |
| 26 Salt & Pure Sodium Chloride | 165.22 | 203.88 | 204.73 |
| 27 Electrical Energy | 226.10 | 226.10 | 226.10 |
| Food, Beverages, Tobacco, Textiles | 182.41 | 192.87 | 195.21 |
| 28 Meat Of Animals | 225.25 | 232.03 | 232.94 |
| 29 Vegetables & Fruit Juices | 179.40 | 190.57 | 190.74 |
| 30 Dried Fruits & Nuts | 207.20 | 222.76 | 222.76 |
| 31 Fruit Juices | 156.40 | 163.81 | 164.49 |
| 32 Vegetable Oil Refined | 158.08 | 159.65 | 160.21 |
| 33 Vegetable Ghee | 145.30 | 141.61 | 141.00 |
| 34 Oil Cakes | 148.24 | 171.55 | 175.62 |
| 35 Processed Liquid Milk | 202.74 | 208.15 | 205.54 |
| 36 Milk And Cream In Solid Form | 169.39 | 177.58 | 178.39 |
| 37 Ice Cream | 170.00 | 191.15 | 204.00 |
| 38 Dairy Products N.E.C | 203.56 | 213.25 | 216.21 |
| 39 Wheat Flour | 153.66 | 186.66 | 190.04 |
| 40 Other Cereal Flour | 213.80 | 163.97 | 150.06 |
| 41 Sugar Refined | 203.40 | 208.83 | 212.01 |
| 42 Chocolate | 99.19 | 99.19 | 99.19 |
| 43 Sugar Confectionary | 100.40 | 102.28 | 102.28 |
| 44 Coffee And Tea | 191.91 | 223.78 | 229.54 |
| 45 Spices | 305.49 | 227.90 | 197.26 |
| 46 Other Food Products | 314.93 | 314.63 | 316.68 |
| 47 Mineral Water | 165.88 | 175.01 | 177.53 |
| 48 Beverages | 135.30 | 139.28 | 139.35 |
| 49 Tobacco Products | 208.80 | 208.80 | 242.41 |
| 50 Cotton Yarn | 198.24 | 209.76 | 210.89 |
| 51 Nylon Yarn | 175.86 | 189.67 | 188.58 |
| 52 Blended Yarn | 186.60 | 198.67 | 197.47 |
| 53 Woven Fabrics | 169.72 | 208.98 | 208.98 |
| 54 Cotton Fabrics | 174.86 | 182.84 | 183.43 |
| 55 Other Fabrics | 165.46 | 172.31 | 175.06 |

Table A11: Wholesale Price Index Numbers by Major Groups and Composite Commodities

| Items and Specifications | Index | | |
|--|---------------|---------------|---------------|
| | Jul-12 | Jun-13 | Jul-13 |
| 56 Silk And Rayon Fabrics | 142.47 | 158.62 | 159.34 |
| 57 Towels | 192.17 | 213.19 | 213.19 |
| 58 Blankets | 164.83 | 185.21 | 185.21 |
| 59 Bed Sheets | 185.57 | 213.18 | 213.18 |
| 60 Quilts | 147.05 | 154.00 | 156.32 |
| 61 Woolen Carpets | 106.55 | 106.55 | 106.55 |
| 62 Synthetic Carpets | 128.41 | 114.41 | 114.41 |
| 63 Hosiery Products | 164.70 | 185.30 | 185.30 |
| 64 Ready Made Garments | 127.25 | 147.20 | 150.00 |
| 65 Leather With Out Hairs | 109.83 | 125.27 | 132.51 |
| 66 Other Leather N.E.C | 122.57 | 179.51 | 203.07 |
| 67 Footwear's | 128.50 | 139.49 | 139.49 |
| Other Transportable Goods | 195.56 | 202.56 | 206.44 |
| 68 Timber | 145.11 | 154.65 | 157.52 |
| 69 Printing Paper | 153.92 | 164.54 | 164.45 |
| 70 Hard Board | 166.67 | 200.00 | 200.00 |
| 71 Coke | 163.45 | 163.45 | 163.45 |
| 72 Motor Sprit | 143.91 | 169.03 | 171.92 |
| 73 Diesel Oil | 232.99 | 248.72 | 254.92 |
| 74 Kerosene Oil | 232.52 | 250.79 | 256.74 |
| 75 Furnace Oil | 189.21 | 169.52 | 171.62 |
| 76 Mobil Oil | 179.57 | 186.56 | 191.04 |
| 77 Chemicals | 146.39 | 160.39 | 163.56 |
| 78 Dying Materials | 104.26 | 107.23 | 107.23 |
| 79 Fertilizers | 261.59 | 261.32 | 268.23 |
| 80 Pesticides | 184.25 | 203.99 | 208.72 |
| 81 Insecticides | 117.64 | 123.90 | 124.43 |
| 82 Paints & Varnishes | 233.80 | 244.12 | 247.56 |
| 83 Medicines | 134.27 | 138.71 | 138.83 |
| 84 Soaps & Detergent | 157.12 | 176.21 | 176.55 |
| 85 Auto Tyres | 176.49 | 184.54 | 185.57 |
| 86 Plastic Products | 191.18 | 197.98 | 198.15 |
| 87 Glass Sheets | 183.78 | 201.02 | 203.49 |
| 88 Other Glass Articles | 217.98 | 206.09 | 206.09 |
| 89 Ceramics And Sanitary | 150.87 | 161.77 | 164.06 |
| 90 Bricks Blocks And Tiles | 170.40 | 185.87 | 184.78 |
| 91 Cement | 180.22 | 189.49 | 194.83 |
| 92 Bed Foams | 133.83 | 144.33 | 144.33 |
| 93 Matches | 122.82 | 142.72 | 143.20 |
| Metal Product Machinery & Equip | 158.63 | 162.20 | 164.46 |
| 94 Pig Iron | 128.97 | 128.97 | 128.97 |
| 95 Steel Bars & Sheets | 139.57 | 135.04 | 138.21 |
| 96 Pipe Fittings | 141.04 | 148.98 | 149.13 |
| 97 Steel Products | 160.53 | 167.61 | 167.61 |
| 98 Engines And Motors | 109.07 | 109.07 | 109.07 |
| 99 Vacuum Pumps | 115.39 | 115.39 | 115.39 |
| 100 Air Conditioners | 172.67 | 179.78 | 179.78 |
| 101 Cultivators | 184.66 | 189.23 | 189.23 |
| 102 Chuff Cutter | 138.54 | 144.94 | 144.94 |
| 103 Tractors | 161.96 | 161.96 | 161.96 |
| 104 Lathe Machines | 147.68 | 147.68 | 147.68 |
| 105 Concrete Mixer | 138.83 | 138.83 | 138.83 |
| 106 Refrige,Wash& Sew Mach, Iron,Fan | 164.31 | 177.00 | 179.92 |
| 107 Electrical Wires | 163.80 | 160.12 | 167.53 |
| 108 Lighting Equipments | 146.79 | 151.78 | 159.47 |
| 109 Radio And Television | 132.73 | 126.49 | 126.49 |
| 110 Motor Vehicles | 167.04 | 173.75 | 173.99 |
| 111 Motor Cycles | 125.19 | 124.56 | 124.80 |
| 112 Bicycles | 175.08 | 178.81 | 178.81 |

Table A12: Price Indices - Base 2007-08 = 100

| Period | CPI | | | WPI | | | SPI * | |
|---------|---------|--------|----------|---------|--------|----------|--------|--------|
| | Overall | Food | Non-food | Overall | Food | Non-Food | | |
| 2008-09 | 117.03 | 123.12 | 113.38 | 118.93 | 119.68 | 118.45 | 123.26 | |
| 2009-10 | 128.85 | 139.05 | 122.73 | 135.40 | 136.85 | 134.48 | 139.84 | |
| 2010-11 | 146.45 | 164.10 | 135.87 | 164.17 | 159.26 | 167.28 | 164.02 | |
| 2011-12 | 162.57 | 182.20 | 150.80 | 181.28 | 181.32 | 181.26 | 178.67 | |
| 2012-13 | 174.53 | 195.18 | 162.16 | 194.61 | 197.21 | 192.95 | 189.64 | |
| 2010 | Nov | 146.34 | 166.59 | 134.20 | 159.34 | 157.03 | 160.81 | 167.56 |
| | Dec | 145.90 | 163.69 | 135.24 | 162.48 | 155.88 | 166.67 | 166.52 |
| 2011 | Jan | 147.67 | 166.52 | 136.37 | 165.58 | 159.08 | 169.70 | 166.96 |
| | Feb | 146.85 | 163.56 | 136.83 | 168.82 | 158.33 | 175.47 | 164.99 |
| | Mar | 148.91 | 167.10 | 138.01 | 174.41 | 162.92 | 181.70 | 166.81 |
| | Apr | 150.99 | 169.25 | 140.05 | 178.69 | 165.46 | 187.09 | 167.83 |
| | May | 151.33 | 168.76 | 140.88 | 176.97 | 167.15 | 183.20 | 167.98 |
| | Jun | 152.78 | 169.88 | 142.53 | 177.98 | 172.14 | 181.68 | 168.09 |
| | Jul | 154.72 | 174.80 | 142.68 | 177.26 | 175.45 | 178.41 | 171.45 |
| | Aug | 156.89 | 177.32 | 144.65 | 178.24 | 178.67 | 177.97 | 173.86 |
| | Sep | 158.50 | 180.16 | 145.52 | 178.68 | 181.88 | 176.65 | 175.02 |
| | Oct | 160.79 | 183.07 | 147.44 | 179.34 | 182.82 | 177.13 | 176.45 |
| | Nov | 161.25 | 183.26 | 148.06 | 178.39 | 181.48 | 176.43 | 177.53 |
| | Dec | 160.12 | 179.21 | 148.67 | 176.01 | 178.29 | 174.57 | 175.04 |
| 2012 | Jan | 162.58 | 181.90 | 151.00 | 179.99 | 178.95 | 180.65 | 178.25 |
| | Feb | 163.07 | 180.69 | 152.51 | 180.99 | 177.56 | 183.17 | 178.63 |
| | Mar | 164.98 | 183.46 | 153.90 | 182.20 | 180.41 | 183.34 | 180.79 |
| | Apr | 168.00 | 187.43 | 156.35 | 185.48 | 184.45 | 186.13 | 184.03 |
| | May | 169.93 | 187.75 | 159.25 | 189.46 | 186.57 | 191.29 | 184.88 |
| | Jun | 169.99 | 187.35 | 159.58 | 189.37 | 189.36 | 189.37 | 188.14 |
| | Jul | 169.57 | 190.72 | 156.89 | 190.05 | 193.92 | 187.59 | 183.98 |
| | Aug | 171.09 | 192.47 | 158.27 | 191.99 | 195.30 | 189.89 | 186.47 |
| | Sep | 172.44 | 193.80 | 159.64 | 192.66 | 195.81 | 190.66 | 188.21 |
| | Oct | 173.10 | 193.66 | 160.77 | 192.88 | 196.21 | 190.77 | 187.32 |
| | Nov | 172.42 | 193.03 | 160.07 | 192.16 | 193.02 | 191.61 | 187.35 |
| | Dec | 172.82 | 192.97 | 160.74 | 192.98 | 195.49 | 191.39 | 187.95 |
| 2013 | Jan | 175.70 | 196.58 | 163.19 | 195.39 | 198.81 | 193.22 | 190.89 |
| | Feb | 175.11 | 194.05 | 163.76 | 196.06 | 197.22 | 195.32 | 190.79 |
| | Mar | 175.82 | 195.06 | 164.29 | 196.57 | 196.02 | 196.92 | 192.01 |
| | Apr | 177.74 | 197.74 | 165.75 | 198.09 | 199.00 | 197.51 | 192.02 |
| | May | 178.65 | 200.00 | 165.85 | 197.23 | 201.14 | 194.75 | 191.96 |
| | Jun | 179.94 | 202.11 | 166.65 | 199.21 | 204.60 | 195.79 | 196.75 |
| | Jul | 183.58 | 208.19 | 168.83 | 202.49 | 209.34 | 198.15 | 200.80 |

*: all groups combined

Table A13: International Commodity Prices/ Indices

| | Apr-13 | May-13 | Jun-13 | Jul-13 |
|------------------------------------|----------|----------|----------|----------|
| Energy | | | | |
| Crude Oil (US\$ per barrel) * | 98.9 | 99.3 | 99.7 | 105.2 |
| IMF Energy Index (2005 = 100) | 184.4 | 184.5 | 184.5 | 192.2 |
| WB Energy Index (2005 = 100) @ | 178.6 | 179.0 | 178.7 | 186.6 |
| Food | | | | |
| Rice (\$/MT) | 553.7 | 552.1 | 546.3 | 538.3 |
| Wheat (\$/MT) | 308.7 | 319.1 | 313.5 | 304.7 |
| Sugar (US cent/ pound) | 17.7 | 17.4 | 16.9 | 16.4 |
| Palm Oil (\$/MT) | 756.5 | 763.4 | 763.0 | 729.9 |
| Soybean Oil (\$/MT) | 1,086.7 | 1,082.8 | 1,058.6 | 1,000.8 |
| Non-Food Non-Energy | | | | |
| Cotton Outlook 'A' Index # | 92.5 | 92.6 | 93.1 | 92.6 |
| IMF Metal Price Index (2005 = 100) | 183.5 | 176.4 | 169.7 | 172.7 |
| Copper (\$/MT) | 7,221.2 | 7,248.7 | 7,000.2 | 6,906.6 |
| Aluminum (\$/MT) | 1,861.0 | 1,832.6 | 1,814.5 | 1,769.6 |
| Iron Ore (\$ cents/dry MT) | 137.4 | 124.0 | 114.8 | 127.2 |
| Tin (\$/MT) | 21,589.6 | 20,781.6 | 20,267.4 | 19,563.8 |
| Nickle (\$/MT) | 15,629.3 | 14,948.2 | 14,280.3 | 13,750.3 |
| Zinc (\$/MT) | 1,855.6 | 1,831.0 | 1,839.0 | 1,837.6 |
| Lead (\$/MT) | 2,024.4 | 2,031.9 | 2,099.7 | 2,047.7 |
| Uranium (\$/MT) | 41.4 | 40.6 | 39.9 | 38.0 |
| DAP (\$/MT) | 508.3 | 485.1 | 476.1 | 460.0 |
| Urea (\$/MT) | 361.5 | 344.4 | 321.4 | 321.5 |

Source: IMF and World Bank

\$/MT = US\$ per metric ton.

* Crude Oil (Petroleum), simple average of three spot prices; Dated Brent, West Texas Intermediate, and the Dubai fateh

Middling 1-3/32 inch staple, Liverpool Index "A", average of the cheapest Cts/lb five of fourteen styles, CIF Liverpool (Cotton Outlook, Liverpool). From January 1968 to May 1981 strict middling 1-1/16 inch staple. Prior to 1968, Mexican 1-1/16.2/

DAP: Diammonium Phosphate

@ World Bank commodity index for low and middle income countries

Table 14. CPI Data Series Original and Seasonally Adjusted

| Period | Original Series | | | |
|-----------------------------------|------------------------|-------------|-------------|-------------|
| | FY11 | FY12 | FY13 | FY14 |
| Jul | 137.62 | 154.72 | 169.57 | 183.58 |
| Aug | 140.63 | 156.88 | 171.09 | |
| Sep | 143.49 | 158.50 | 172.44 | |
| Oct | 144.90 | 160.79 | 173.10 | |
| Nov | 146.34 | 161.25 | 172.42 | |
| Dec | 145.90 | 160.12 | 172.82 | |
| Jan | 147.67 | 162.58 | 175.70 | |
| Feb | 146.85 | 163.07 | 175.11 | |
| Mar | 148.91 | 164.98 | 175.82 | |
| Apr | 150.99 | 168.00 | 177.74 | |
| May | 151.33 | 169.93 | 178.65 | |
| Jun | 152.78 | 169.99 | 179.94 | |
| Seasonally Adjusted Series | | | | |
| Jul | 137.48 | 154.57 | 169.37 | 183.34 |
| Aug | 139.79 | 155.91 | 169.98 | |
| Sep | 142.51 | 157.41 | 171.26 | |
| Oct | 143.68 | 159.40 | 171.62 | |
| Nov | 145.55 | 160.35 | 171.42 | |
| Dec | 146.64 | 160.96 | 173.77 | |
| Jan | 147.88 | 162.77 | 175.87 | |
| Feb | 147.97 | 164.34 | 176.47 | |
| Mar | 149.80 | 165.99 | 176.93 | |
| Apr | 151.03 | 167.99 | 177.70 | |
| May | 151.86 | 170.58 | 179.39 | |
| Jun | 153.49 | 170.83 | 180.92 | |

Table 15. CPI Food Data Series Original and Seasonally Adjusted

| Period | Original Series | | | |
|----------------------------|-----------------|--------|--------|--------|
| | FY11 | FY12 | FY13 | FY14 |
| Jul | 149.33 | 174.80 | 190.72 | 208.19 |
| Aug | 156.70 | 177.32 | 192.47 | |
| Sep | 163.96 | 180.16 | 193.80 | |
| Oct | 163.91 | 183.07 | 193.66 | |
| Nov | 166.59 | 183.26 | 193.03 | |
| Dec | 163.69 | 179.21 | 192.97 | |
| Jan | 166.52 | 181.90 | 196.58 | |
| Feb | 163.56 | 180.69 | 194.05 | |
| Mar | 167.10 | 183.46 | 195.06 | |
| Apr | 169.25 | 187.43 | 197.74 | |
| May | 168.77 | 187.75 | 200.00 | |
| Jun | 169.88 | 187.35 | 202.11 | |
| Seasonally Adjusted Series | | | | |
| Jul | 149.06 | 174.48 | 190.24 | 207.57 |
| Aug | 154.72 | 174.99 | 189.84 | |
| Sep | 161.36 | 177.21 | 190.61 | |
| Oct | 160.78 | 179.52 | 189.98 | |
| Nov | 164.21 | 180.58 | 190.05 | |
| Dec | 164.87 | 180.55 | 194.45 | |
| Jan | 167.13 | 182.51 | 197.21 | |
| Feb | 166.50 | 184.02 | 197.63 | |
| Mar | 169.18 | 185.82 | 197.63 | |
| Apr | 170.05 | 188.27 | 198.60 | |
| May | 170.20 | 189.51 | 202.02 | |
| Jun | 171.89 | 189.68 | 204.74 | |

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Table 16: CPI Monthly & Average Seasonal Factors

| Period | FY11 | FY12 | FY13 | FY14 | Average |
|--------|--------|--------|--------|--------|---------|
| Jul | 100.10 | 100.09 | 100.11 | 100.12 | 100.10 |
| Aug | 100.56 | 100.58 | 100.60 | | 100.58 |
| Sep | 100.61 | 100.62 | 100.62 | | 100.61 |
| Oct | 100.76 | 100.79 | 100.79 | | 100.78 |
| Nov | 100.47 | 100.49 | 100.52 | | 100.49 |
| Dec | 99.51 | 99.49 | 99.47 | | 99.49 |
| Jan | 99.88 | 99.90 | 99.92 | | 99.90 |
| Feb | 99.32 | 99.31 | 99.31 | | 99.31 |
| Mar | 99.46 | 99.44 | 99.42 | | 99.44 |
| Apr | 100.01 | 100.04 | 100.06 | | 100.04 |
| May | 99.69 | 99.66 | 99.63 | | 99.66 |
| Jun | 99.59 | 99.56 | 99.52 | | 99.56 |

Table 17: CPI Food Monthly & Average Seasonal Factors

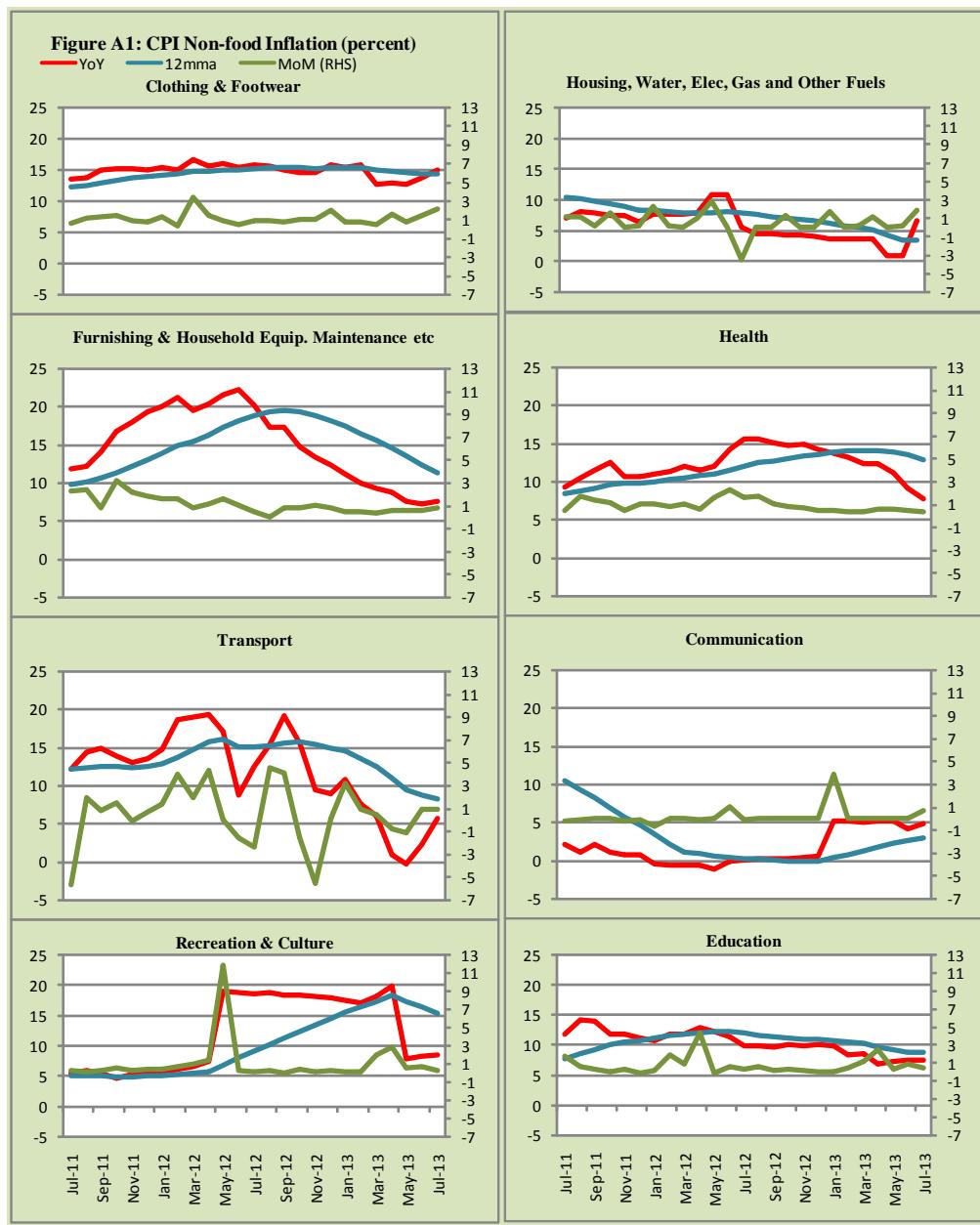
| Period | FY11 | FY12 | FY13 | FY14 | Average |
|--------|--------|--------|--------|--------|---------|
| Jul | 100.18 | 100.19 | 100.25 | 100.30 | 100.23 |
| Aug | 101.28 | 101.33 | 101.39 | | 101.33 |
| Sep | 101.61 | 101.66 | 101.68 | | 101.65 |
| Oct | 101.94 | 101.98 | 101.94 | | 101.95 |
| Nov | 101.45 | 101.48 | 101.57 | | 101.50 |
| Dec | 99.29 | 99.26 | 99.24 | | 99.26 |
| Jan | 99.64 | 99.67 | 99.68 | | 99.66 |
| Feb | 98.23 | 98.19 | 98.19 | | 98.20 |
| Mar | 98.77 | 98.73 | 98.70 | | 98.73 |
| Apr | 99.53 | 99.55 | 99.57 | | 99.55 |
| May | 99.15 | 99.07 | 99.00 | | 99.08 |
| Jun | 98.83 | 98.77 | 98.72 | | 98.77 |

Table 18: CPI Month-on-Month Change Original & Seasonally Adjusted

| Period | Original Series | | | |
|----------------------------|-----------------|-------|-------|------|
| | FY11 | FY12 | FY13 | FY14 |
| Jul | 2.07 | 1.27 | -0.25 | 2.02 |
| Aug | 2.19 | 1.40 | 0.90 | |
| Sep | 2.03 | 1.03 | 0.79 | |
| Oct | 0.98 | 1.44 | 0.38 | |
| Nov | 0.99 | 0.29 | -0.39 | |
| Dec | -0.30 | -0.70 | 0.23 | |
| Jan | 1.21 | 1.54 | 1.67 | |
| Feb | -0.56 | 0.30 | -0.34 | |
| Mar | 1.40 | 1.17 | 0.41 | |
| Apr | 1.40 | 1.83 | 1.09 | |
| May | 0.23 | 1.15 | 0.51 | |
| Jun | 0.96 | 0.04 | 0.72 | |
| Seasonally Adjusted Series | | | | |
| Jul | | 0.70 | -0.86 | 1.34 |
| Aug | 1.68 | 0.87 | 0.36 | |
| Sep | 1.95 | 0.96 | 0.75 | |
| Oct | 0.82 | 1.26 | 0.21 | |
| Nov | 1.30 | 0.60 | -0.12 | |
| Dec | 0.75 | 0.38 | 1.37 | |
| Jan | 0.85 | 1.12 | 1.21 | |
| Feb | 0.06 | 0.97 | 0.34 | |
| Mar | 1.24 | 1.01 | 0.26 | |
| Apr | 0.82 | 1.20 | 0.43 | |
| May | 0.55 | 1.54 | 0.96 | |
| Jun | 1.07 | 0.15 | 0.85 | |

Table 19: CPI Food Month-on-Month Change Original & Seasonally Adjusted Series

| Period | Original Series | | | |
|----------------------------|-----------------|-------|-------|------|
| | FY11 | FY12 | FY13 | FY14 |
| Jul | 1.84 | 2.90 | 1.80 | 3.01 |
| Aug | 4.93 | 1.44 | 0.92 | |
| Sep | 4.64 | 1.60 | 0.69 | |
| Oct | -0.04 | 1.62 | -0.07 | |
| Nov | 1.64 | 0.10 | -0.33 | |
| Dec | -1.74 | -2.21 | -0.03 | |
| Jan | 1.73 | 1.50 | 1.87 | |
| Feb | -1.77 | -0.66 | -1.29 | |
| Mar | 2.16 | 1.53 | 0.52 | |
| Apr | 1.28 | 2.16 | 1.37 | |
| May | -0.28 | 0.17 | 1.14 | |
| Jun | 0.66 | -0.21 | 1.06 | |
| Seasonally Adjusted Series | | | | |
| Jul | 0.48 | 1.50 | 0.30 | 1.38 |
| Aug | 3.80 | 0.30 | -0.21 | |
| Sep | 4.29 | 1.27 | 0.40 | |
| Oct | -0.36 | 1.30 | -0.33 | |
| Nov | 2.13 | 0.59 | 0.04 | |
| Dec | 0.40 | -0.02 | 2.32 | |
| Jan | 1.37 | 1.09 | 1.42 | |
| Feb | -0.37 | 0.83 | 0.21 | |
| Mar | 1.61 | 0.98 | 0.00 | |
| Apr | 0.51 | 1.32 | 0.49 | |
| May | 0.09 | 0.66 | 1.72 | |
| Jun | 0.99 | 0.09 | 1.34 | |



Inflation Monitor, July 2013

Figure A2: Frequency Distribution of Price Changes of CPI Items, July 2013

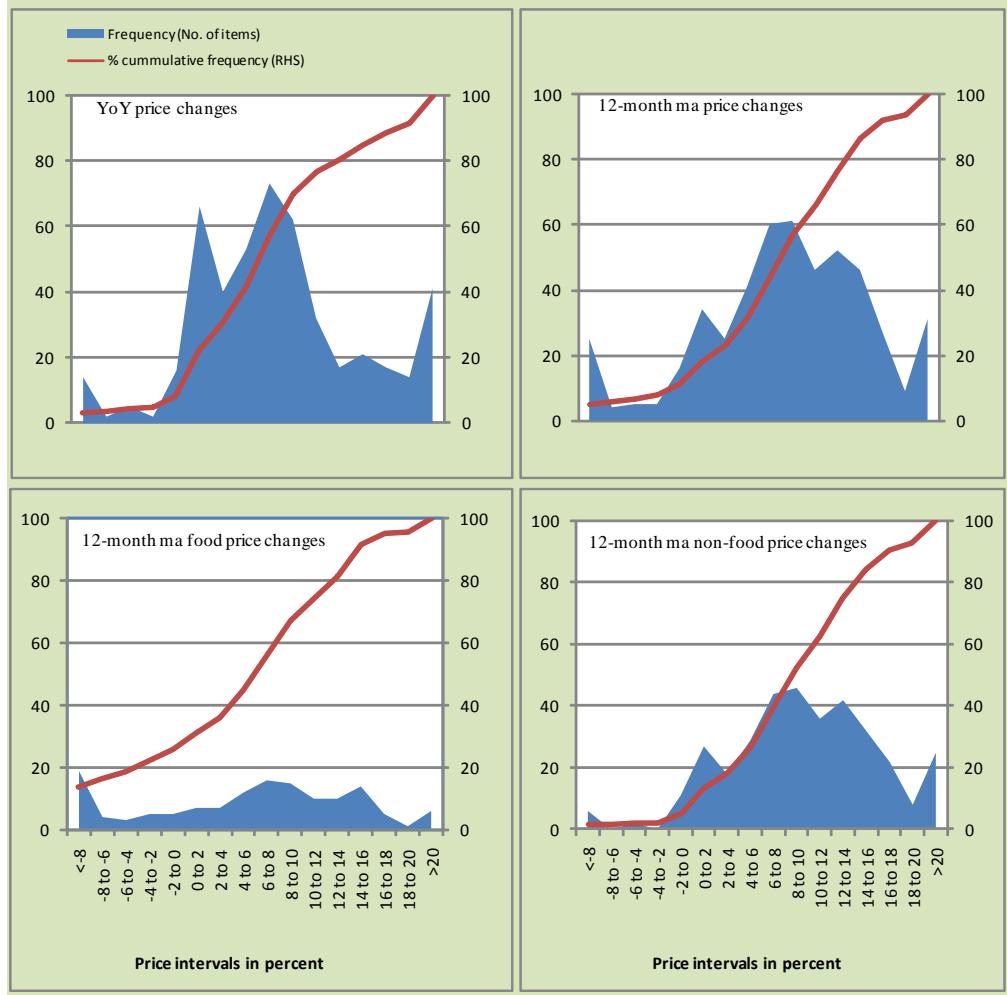
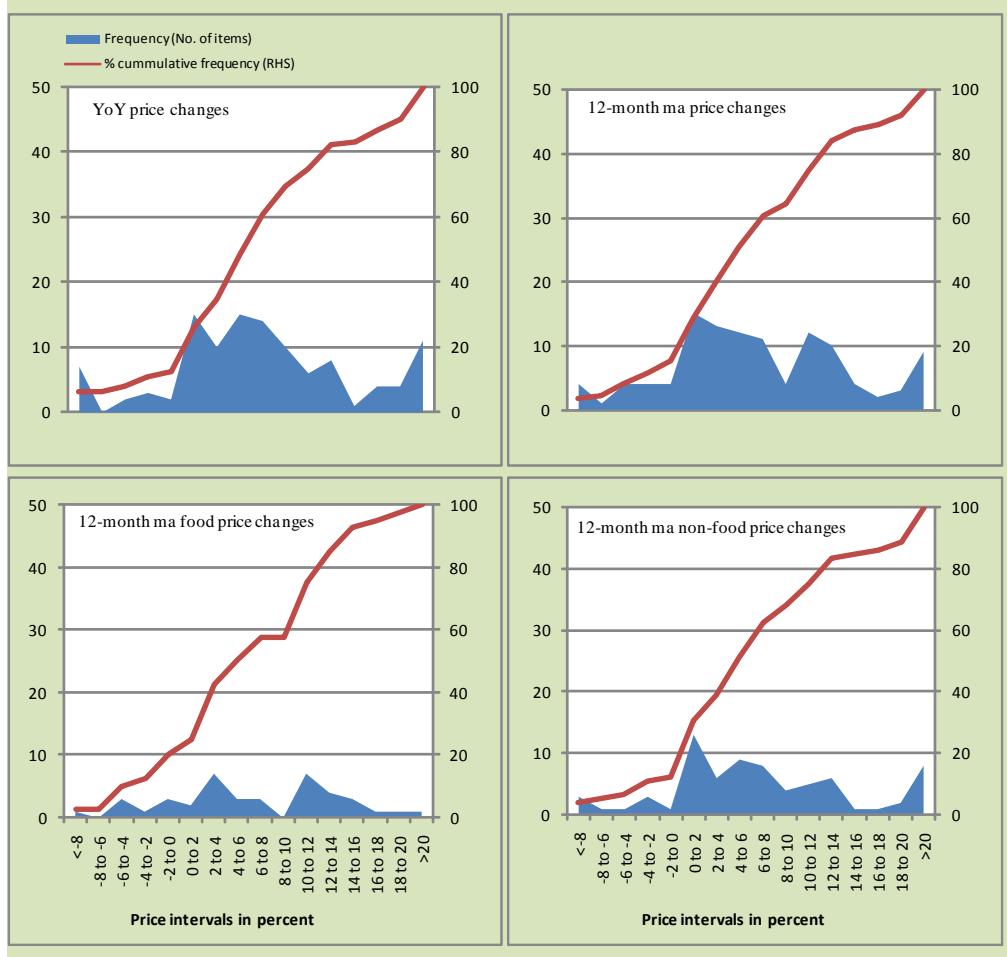
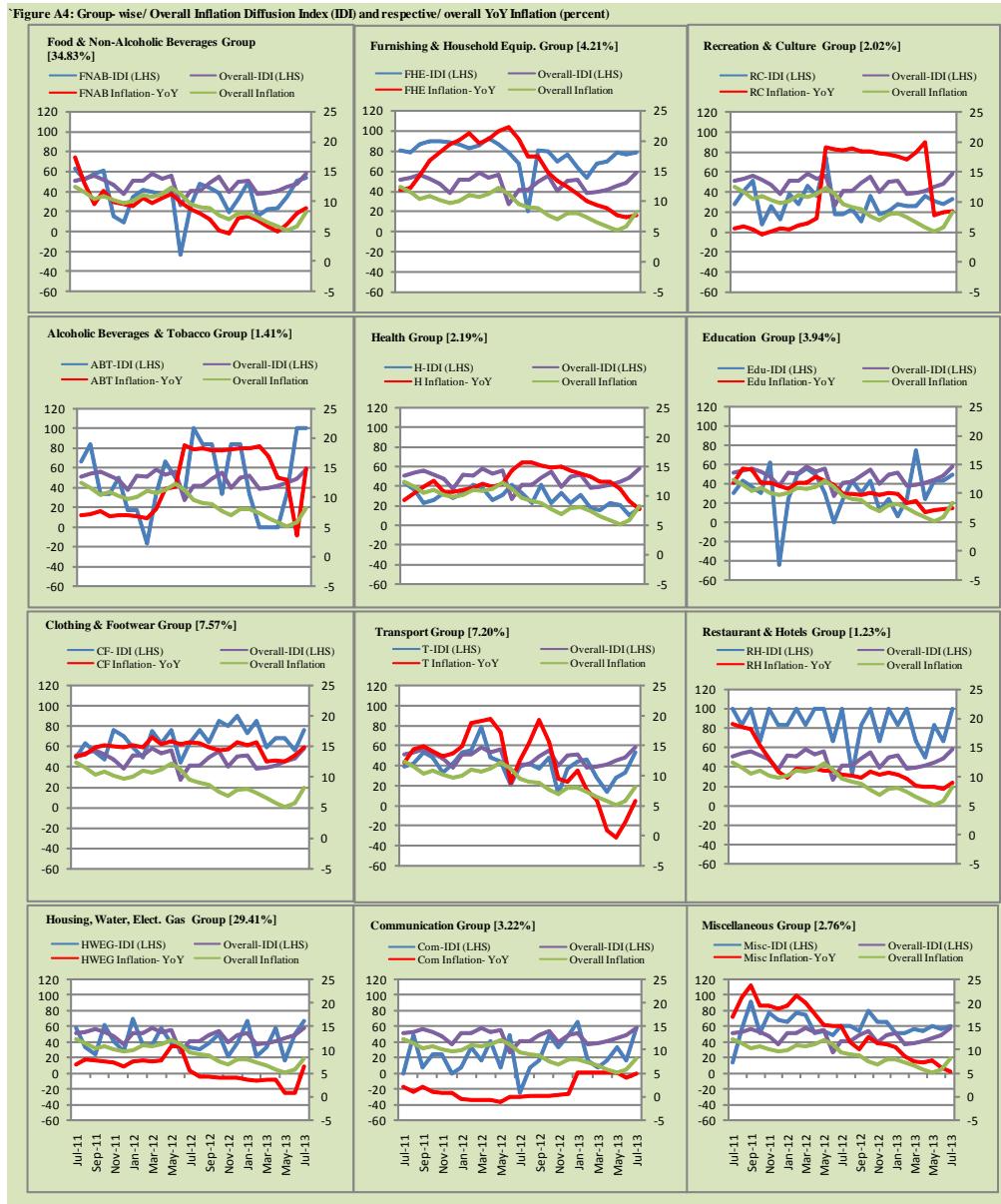


Figure A3: Frequency Distribution of Price Changes of WPI Commodities, July 2013



Inflation Monitor, July 2013



Annexure B

Technical Notes

1. All the three measures of inflation, viz. CPI, WPI and SPI are computed by the following Laspeyres Index formula:

$$I_t = \sum_j w_0^j \left(\frac{P_t^j}{P_0^j} \right)$$

Where I_t is price index, w_0^j is weight of commodity j in the overall basket, P_t^j is price of commodity j in period t and P_0^j is its price in the base year.

2. Base year for all the indices is the year 2007-08.
3. CPI basket contains 487 consumers' goods; WPI basket contains 463 items; SPI contains 53 items.
4. YoY inflation is the percent change of an index in a given month over the index in the same month of the last year. It is computed as follows:

$$\pi_t = \left(\frac{I_t}{I_{t-12}} - 1 \right) \times 100$$

5. Period average inflation is the percent change of the average index during the period from July to the given month of a fiscal year over the average index during the corresponding period of the last year. It is computed as follows:

$$\bar{\pi}_t = \left(\frac{\sum_{i=0}^{t-v} I_{t-i}}{\sum_{i=0}^{t-12-v} I_{t-12-i}} - 1 \right) \times 100$$

Where v is the serial number of the month of July of current fiscal year in a given time series.

6. Monthly inflation is the percent change of an index in a given month over the index in the preceding month. It is computed as follows:

$$\pi_t = \left(\frac{I_t}{I_{t-1}} - 1 \right) \times 100$$

7. 12-month moving average inflation (Long-run trend inflation) is the percent change of 12-month moving average of a price index; it is computed as follows:

$$\tilde{\pi}_t = \left(\frac{\sum_{i=0}^{11} I_{t-i}}{\sum_{i=0}^{11} I_{t-12-i}} - 1 \right) \times 100$$

8. Core Inflation is defined as the persistent component of measured inflation that excludes volatile and controlled prices. It reflects the normal supply and demand conditions in the economy. Core inflation is computed by the following two methods:
- Non-food, Non-energy inflation (NFNE inflation); it is computed by excluding food group and energy items (kerosene oil, petrol, diesel, CNG, electricity and natural gas) from the CPI basket.
 - 20% trimmed-mean inflation; it is computed through the following steps:
 - All CPI items are arranged in ascending order according to YoY/12-month moving average/monthly/period average changes in their price indices in a given month.
 - 20 percent of the items showing extreme changes are excluded with 10 percent of the items at the top of the list (corresponding to cumulative weight of 90% or more) and 10 percent of the items at the bottom of the list (corresponding to cumulative weight of 10 percent or less).
 - The weighted mean of the changes in price indices of the rest of the items is core inflation.
9. Weighted contribution of different items (or sub-groups) to total inflation is worked out as below:

Let the overall index (I_t) is the weighted average of price indexes of individual items or sub-groups (I_{it}), i.e.

$$I_t = \sum_i w_i \cdot I_{it}$$

The weighted contribution of a single item (or a sub-group) to overall inflation is defined as below:

$$C_{it} = \alpha_{it-12} \cdot w_i \cdot \left(\frac{\pi_{it}}{\pi_t} \right)$$

Where C_{it} : Contribution of i^{th} item to the overall inflation

$\alpha_{it-12} = \frac{I_{it-12}}{I_{t-12}}$; i.e. ratio of item's index to overall index in the

reference month

w_i : Weights of i^{th} item

π_{it} : Inflation of i^{th} item

π_t : Overall inflation

10. Annualized rate of inflation (based on a month-on-month rate π) is computed as follows

$$\text{Annualized } \pi = ((1 + \frac{\pi}{100})^{12} - 1) \times 100$$

Methodology for Estimating Inflation Diffusion Index for Pakistan

We constructed an index to measure the spread of inflation in the 487 commodities of the CPI basket. It is based on month-on-month (MoM) change in the prices of these commodities and can be obtained by estimating what is known as an ‘inflation diffusion index’ (IDI) as below:

$$\frac{\text{Number of Commodities with } \uparrow \text{ in MoM change} - \text{Number of Commodities with } \downarrow \text{ in MoM change}}{\text{Number of Commodities for which prices are reported}}$$

Thus, it is the difference between the share of items with increasing prices (i.e. depicting inflation) and the share of items with falling prices (i.e. depicting deflation) in CPI amongst the commodities for which prices have altered or remained constant¹.

Based upon commodity level price data from July 2001 to February 2011 we computed inflation diffusion indices overall (general) CPI basket and for all groups in CPI basket (except House Rent Index being single item). A simple analysis² suggests that IDI is a leading indicator for Pakistan’s YoY inflation.

¹ We do not observe the prices of certain commodities (like the seasonal items) during certain periods of time. To calculate the inflation diffusion index we consider the commodities for which prices have been reported (irrespective of changed or not) during the month under review.

² Formal test shows one way ‘Granger’ causality from IDI to YoY inflation.