



NATIONAL INSTITUTE OF
STATISTICS OF RWANDA



NATIONAL BANK OF RWANDA

**PRODUCER PRICE INDEX FOR
MANUFACTURING SECTOR (PPI-M)
FOURTH QUARTER 2011**

Background

This is the twenty eighth publication of monthly Producer Price Index for the Manufacturing sector (PPI-M). Work on the development of the methodology for the construction of the PPI-M started in March 2003 with technical assistance from the IMF East AFRITAC and financial assistance from the UK DFID. The PPI project is a joint project between the National Institute of Statistics of Rwanda (NSIR) and the National Bank of Rwanda (NBR).

Table 1: Monthly Producer Price Indices by activity group: **Fourth Quarter 2011**
Goods Produced mainly for local sales
(Base Period: Fourth Quarter 2003 = 100)

Activity group	Weight	2010			2011			2010	2011
		Oct.	Nov.	Dec.	Oct.	Nov.	Dec.	4 ^o Qr	4 ^o Qr
PPI for Mainly Local Sold products	1000	163.30	163.75	164.38	174.41	174.41	174.41	163.81	174.41
<i>% change, previous month/quarter^(*)</i>		0.24	0.27	0.38	0.29	0.00	0.00	0.51	0.92
<i>% change, 12 months</i>		6.89	6.46	6.56	6.80	6.51	6.10	6.64	6.47
Food Products, Beverages and Tobacco	456	161.76	162.27	162.44	178.85	178.85	178.85	162.16	178.85
<i>% change, previous month/quarter^(*)</i>		-0.58	0.32	0.11	0.65	0.00	0.00	-0.47	0.22
<i>% change, 12 months</i>		8.08	6.93	6.46	10.57	10.22	10.10	7.15	10.29
Food products	129	175.55	177.35	177.97	190.48	190.48	190.48	176.96	190.48
<i>% change, previous month/quarter^(*)</i>		-1.87	1.02	0.35	2.20	0.00	0.00	-1.52	0.74
<i>% change, 12 months</i>		-0.28	-3.29	-4.50	8.50	7.40	7.03	-2.73	7.64
Production, processing and preserving of meat and meat products	3	220.85	220.85	220.85	220.92	220.92	220.92	220.85	220.92
Processing and preserving of fruits and vegetables	8	168.53	168.53	168.53	193.98	206.95	226.35	168.53	209.09
Manufacture of dairy products	32	212.10	212.10	212.10	212.02	212.02	212.02	212.10	212.02
Manufacture of grain mill and animal feeds products	27	149.69	152.41	153.37	180.52	180.66	180.81	151.83	180.66
Manufacture of bakery products, pastry, biscuits	13	172.89	172.89	172.89	191.77	191.77	191.77	172.89	191.77
Manufacture of sugar	45	164.26	167.77	168.96	187.91	187.91	222.08	167.00	199.30
Beverages and Tobacco	327	156.29	156.29	156.29	174.24	174.24	174.24	156.29	174.24
<i>% change, previous month/quarter^(*)</i>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>% change, 12 months</i>		12.27	12.27	12.27	11.49	11.49	11.49	12.27	11.49
<i>Manufacture of beer, soft drinks and tobacco</i>	327	156.29	156.29	156.29	174.24	174.24	174.24	156.29	174.24
Other than Food, Beverages and Tobacco	544	164.60	164.99	166.00	170.70	170.69	170.68	165.19	170.69
<i>% change, previous month/quarter^(*)</i>		0.92	0.23	0.61	-0.02	0.00	0.00	1.34	1.55
<i>% change, 12 months</i>		5.93	6.08	6.64	3.70	3.46	2.82	6.21	3.33
Manufacture of textiles, wearing apparel, tanning and dressing of leather	47	161.16	165.45	175.24	185.82	185.82	185.76	167.28	185.80
Manufacture of paper and paper products, publishing of books, newspapers	40	145.01	145.01	145.01	147.13	147.13	147.13	145.01	147.13
Manufacture of chemical products	172	148.80	148.93	149.47	164.74	164.74	164.74	149.07	164.74
Manufacture of plastic products, tubes, retreading and rebuilding of rubber tyres	45	151.32	151.32	151.32	135.74	135.74	135.74	151.32	135.74
Manufacture of ceramic products, cement, lime and articles of concrete	126	196.08	196.08	196.08	196.75	196.75	196.75	196.08	196.75
Manufacture of fabricated metal products	70	174.56	174.37	174.37	173.75	173.70	173.70	174.43	173.72
Manufacture of furniture	43	155.94	155.94	155.94	156.09	156.09	156.09	155.94	156.09

(*) Only for quarterly figures

Source: Quarterly Producer Price Index Surveys

Table 1b: Monthly Producer Price Indices by activity group: **Fourth Quarter 2011**
Goods produced mainly for export

(Base Period: Fourth Quarter 2003 = 100)

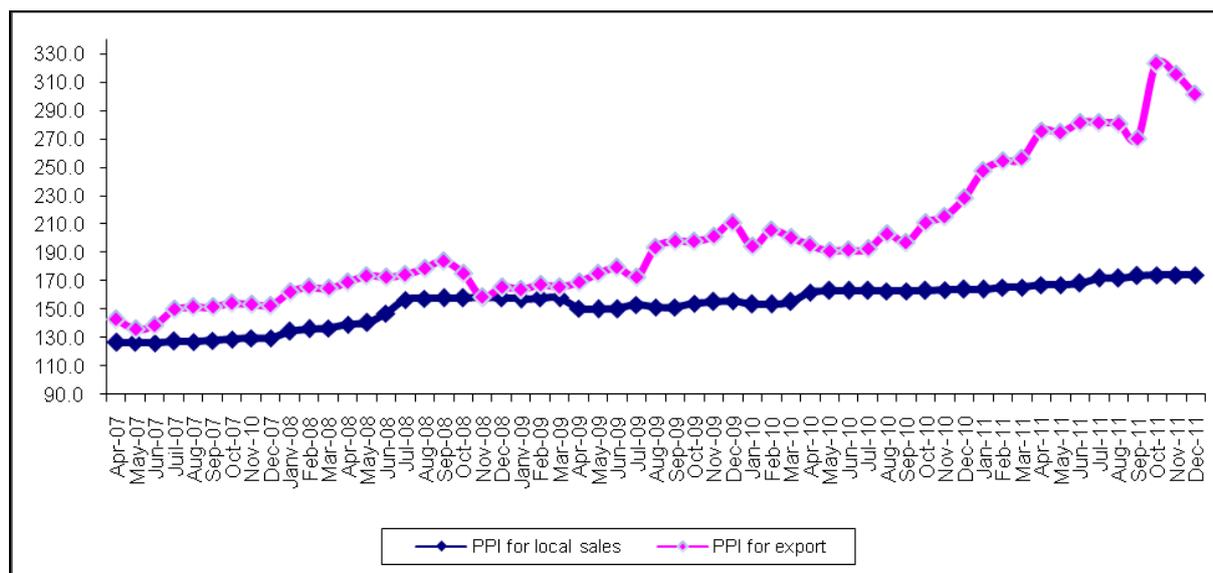
Activity group	Weight	2010			2011			2010	2011
		Oct.	Nov.	Dec.	Oct.	Nov.	Dec.	4 ^{Qr}	4 ^{Qr}
PPI for Mainly Export Products	1000	211.43	215.51	228.22	323.03	315.39	301.77	218.39	313.40
<i>% change, previous month/quarter^(*)</i>		7.17	1.93	5.89	19.64	-2.36	-4.32	10.43	12.92
<i>% change, 12 months</i>		6.92	6.93	8.09	52.79	46.35	32.23	7.33	43.51
Manufacture of other food products n.e.c	978	206.61	210.79	224.08	318.99	311.18	297.25	213.83	309.14
<i>% change, previous month/quarter^(*)</i>		7.53	2.02	6.31	20.46	-2.45	-4.48	10.90	13.44
<i>% change, 12 months</i>		6.90	6.91	8.28	54.39	47.63	32.65	7.38	44.58
Production of tea	585	161.68	171.65	185.07	167.75	164.53	163.73	172.80	165.34
<i>% change, previous month/quarter^(*)</i>		0.56	6.17	7.82	0.17	-1.92	-0.49	9.76	-7.02
<i>% change, 12 months</i>		-3.81	-3.04	-0.55	3.76	-4.15	-11.53	-2.41	-4.32
Production of coffee	392	273.62	269.16	282.25	544.54	529.89	496.37	275.01	523.60
<i>% change, previous month/quarter^(*)</i>		14.52	-1.63	4.86	32.83	-2.69	-6.33	11.99	26.56
<i>% change, 12 months</i>		18.53	18.46	18.57	99.01	96.87	75.86	18.52	90.39
Manufacture of pesticides and other agro-chemical products	22	423.63	423.63	410.50	500.96	500.96	500.96	419.25	500.96
<i>% change, previous month/quarter^(*)</i>		0.00	0.00	-3.10	0.36	0.00	0.00	0.73	0.36
<i>% change, 12 months</i>		7.43	7.43	3.89	18.26	18.26	22.04	6.25	19.49
Production of pyrethrum	22	423.63	423.63	410.50	500.96	500.96	500.96	419.25	500.96

(*) Only for quarterly figures

Source: Quarterly Producer Price Index Surveys

Graph1: PPI for local sales and export products

(Fourth quarter 2003=100)



Source: Quarterly Producer Price Index Surveys

I. Monthly PPI-M (Base period: 4th Quarter 2003 =100)

1.1 PPI-M: Local sales (table 1a)

In December 2011, the index for products manufactured for sale on the local market stood at 174.41, which is stagnation compared to the index of November 2011 (174.41).

On annual basis, the index for December 2011 was 6.10 % higher. This increase is mainly attributable to price increases in the following subgroups: « Food products, beverages and tobacco» (+10.10%) and «Other than food, beverages and tobacco » (+2.82%). Within the subgroup « Food products, beverages and tobacco», prices of « Food products » rose by 7.03%. The increase of 7.03% is due to price changes of the food products of which: «Manufacture of bakery products, pastry, and biscuits» (+10.92%), «Manufacture of grain mill and animal feeds products» (+17.89%), and «Processing and preserving of fruits and vegetables» (+34.31%) and manufacture of sugar (+31.44%).

The index of the subgroup « Other than food, beverages and tobacco » increased by 2.82% in December 2011 compared to the index of the same month of the year 2010. This increase is mostly attributable to the overall effect of price changes in the following classes: «Manufacture of textiles, wearing apparel, tanning and dressing of leather» (+6.01%) and ««Manufacture of chemical products» (+10.22%). Nevertheless, « Manufacture of plastic products, tubes, retreading and rebuilding of rubber tyres » (-10.30%) » have partially dampened the positive trend of this subgroup.

1.2 PPI-M Exports (table 1b)

As shown in the table 1b, the index for goods mainly produced for exports stood at 323.03 in October, 315.39 in November and 301.77 in December 2011. Prices fetched for tea exports registered a slight increase of 0.17% in October 2011 and decreases of 1.92% and 0.49% in November and December 2011, respectively. On the other hand, export price of coffee registered an increase of 32.83% in October and retreated by 2.69% and 6.33 % in November and December 2011, respectively.

On an annual basis, the index of export products registered an increase of 32.23% in December 2011 compared to the index of the same month of the previous year.

II. Quarterly PPI-M (Base period: 4th Quarter 2003 =100)

2.1 PPI-M Local sales

The index for the fourth quarter registered a slight increase of 0.92% compared to the index of the previous quarter and an increase of 6.47% compared to the index of the third quarter of the year 2010.

2.2 PPI-M Exports

The quarterly index for manufacturing exports registered an increase of 12.92% in the fourth quarter of the year 2011 compared to the index of the previous quarter and an increase of 43.51% compared to the index of the same quarter of the previous year.

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Technical Note on PPI-M

1. Scope and composition: For the purpose of these indices, manufacturing encompass all products produced for sale on the domestic market as well as for the exports that is divisions 15 to 36. The PPI-M will initially cover manufacturing establishments that operate with 10 or more workers.

2. Items and weights: These indices are fixed weight indices. The weights were obtained from the gross output value reported by manufacturers at the 2000 Census of Industrial Production conducted in 2001. Gross output is valued at basic prices, and thus excludes all taxes on products, namely excise duties and Value added tax. Each selected product is assigned a weight representing its share in the total turnover for the fourth quarter of 2003 as reported by the establishments.

3. Price information: The point of pricing is the establishment. The price is the selling price received by the producer for the selected product as it leaves the factory gate. In general prices are collected at *mid – point of each month*.

4. Reference base period for PPI_M: The reference period for the calculation of PPI-M is the fourth quarter 2003. The base price for a particular product is an arithmetic mean of the fourth quarter monthly prices in 2003.

5. Index formula: The PPI is calculated according to the Laspeyres formula, which is the weighted average of price relatives.

$$I_c = \sum \frac{w_i * P_{ci} / P_{oi}}{\sum w_i} * 100$$

Where I_c = Index for current month

W_i = Weight associated with product i

P_{ci} = Price of product i for the current month

P_{oi} = Price for product i for the reference period

6. Uses of the PPI

The main uses of the PPI are:

- As a leading indicator of inflationary trends.
- As deflators for national accounting at constant prices.
- As “escalators” to adjust prices of inputs in long term sales contracts.

7. Dissemination of PPI-M: The monthly PPI-M will be published in each quarter, about 8 weeks following the quarter under review.
