Quarterly Index of Industrial Production (QIIP) Third Quarter 2015

1. Introduction

The Index of Industrial Production shows the evolution of the volume of output of the Industrial Sector which covers "Mining and quarrying", "Manufacturing", "Electricity, gas, steam and air conditioning supply" and "Water supply; sewerage, waste management and remediation activities" and accounts for around 20% of Gross Domestic Product (GDP). The index compiled on a quarterly basis is one of the most important industrial short-term indicators, which aims at measuring, on a quarterly basis, the changes in the volume of industrial output.

2. Contents of the publication

This issue of "Economic and Social Indicators" presents the quarterly indices for the first quarter of 2008 to third quarter of 2015 with weights based on the results of the 2007 Census of Economic Activities.

The indices are given separately for the four sections, namely, "Mining and quarrying", "Manufacturing", "Electricity, gas, steam and air conditioning supply" and "Water supply; sewerage, waste management and remediation activities". Within "Manufacturing", estimates by broad group, namely Export Oriented Enterprises (EOE), Non-EOE and "Sugar milling" as well as by main industrial grouping are given. Wherever possible, the annual averages of the quarterly indices have been worked out and included in the tables. It is to be noted that, due to incomplete data, indices for the third quarter of 2015 are provisional and published at section and broad group level only. They are therefore subject to revision in future issues of the Economic and Social Indicators on QIIP.

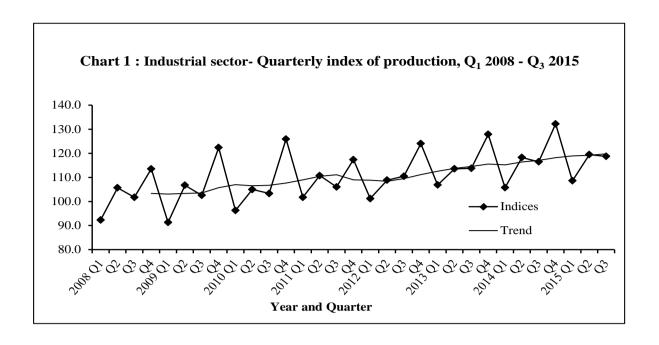
The published indices are not seasonally adjusted. The user is therefore advised to base comparisons for a particular quarter of a year on the corresponding quarter of the previous year.

The objectives of the QIIP, data sources and methodology used in the compilation of the index as well as the limitations of the index are given at annex.

3. The overall index - Industrial Sector

In the third quarter of 2015, the overall index of industrial production went down by 0.6% compared to the previous quarter and expanded by 1.9% compared to the corresponding quarter of 2014.

In the year ending third quarter 2015, i.e. fourth quarter 2014 to third quarter 2015 real industrial output went up by 2.3%. This is explained by expansions in the real output of "Mining and quarrying" (+1.4%), "Manufacturing" (+1.9%), "Electricity, gas, steam and air conditioning supply" (+2.9%) and "Water supply; sewerage, waste management and remediation activities" (+2.8%).

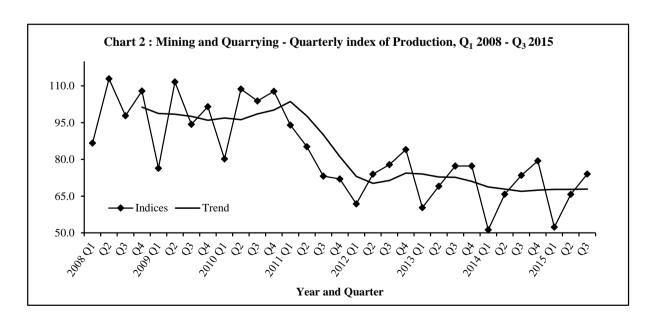


Within "Manufacturing", the growth of 1.9% was due to a growth of 4.0% in the "Non-EOE" sector partly offset by contractions of 5.4% and 1.1% in "Sugar milling" and "EOE" sectors respectively.

4. Changes by section

4.1 Mining and quarrying

"Mining and quarrying" comprises activities relating to quarrying of decorative stones, sand and salt extraction as well as stone crushing and represents only 2% of the output of the industrial sector. In the third quarter of 2015, real output expanded by 12.6% compared to the previous quarter and by 0.7% compared to the corresponding quarter of 2014. In year ending third quarter 2015, production went up by 1.4% (Table 1).

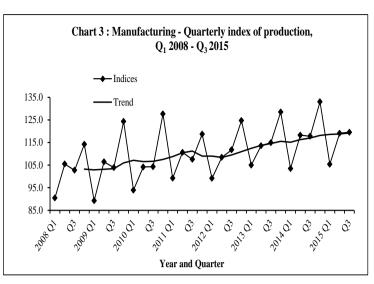


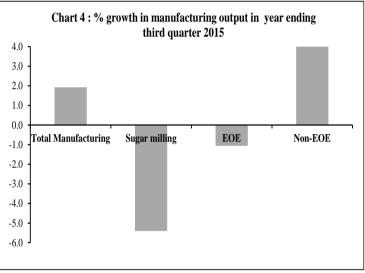
4.2 Manufacturing

Manufacturing output, which covers the production of a wide range of goods, represented 89% of the output of the industrial sector in 2014. For analysis purposes, "Manufacturing" is broken down into the following broad groups:

- Sugar milling representing around 2% of manufacturing output
- EOE (39%)
- Non–EOE (59%)

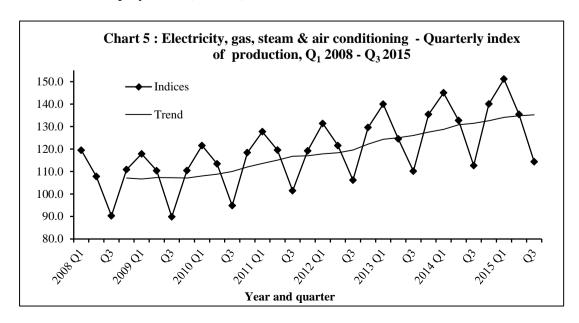
Manufacturing output in the third quarter of 2015 expanded by 0.4% compared to the previous quarter and by 1.5% compared to the corresponding quarter of 2014 (Table 1). In the year ending third quarter 2015, real output expanded by 1.9%. This is explained by an expansion of 4.0% in the "Non-EOE" sector partly offset by contractions of 5.4% and 1.1% in "Sugar Milling" and "EOE" respectively. The performances of the "EOE" and the "Non-EOE excluding Sugar Milling" by detailed industry group up to second quarter 2015 are analysed separately in Section 5.





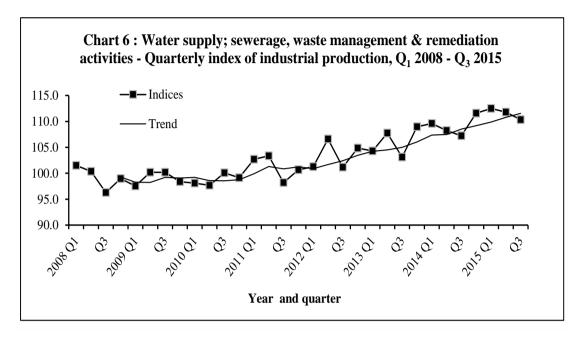
4.3 Electricity, gas, steam and air conditioning supply

"Electricity, gas, steam and air conditioning supply" accounts for around 7.2% of the output of the industrial sector. In the third quarter of 2015, real output of this sector registered a negative growth of 15.6% compared to the previous quarter while a positive growth of 1.5% was noted when compared to the corresponding quarter of 2014. In the year ending third quarter 2015, it went up by 2.9% (Table 1).



4.4 Water supply; sewerage, waste management and remediation activities

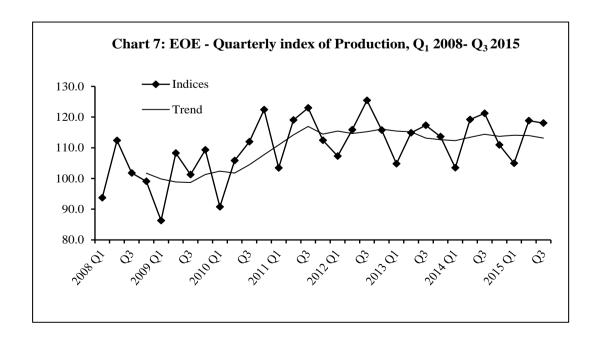
"Water supply; sewerage, waste management and remediation activities" accounts for around 2% of the output of the industrial sector. In the third quarter of 2015, real output of this sector went down by 1.3% compared to the previous quarter and rebounded by 2.9% compared to the corresponding quarter of 2014. In year ending third quarter 2015, an expansion of 2.8% has been noted (Table 1).



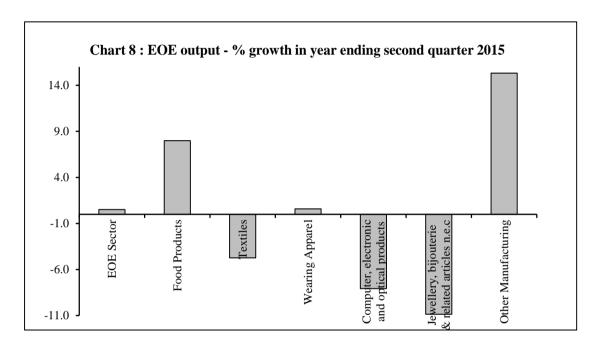
5. Changes by broad group

5.1 EOE

Real output of the EOE dropped by 0.6% in the third quarter of 2015 compared to the previous quarter and by 2.6% when compared to the corresponding quarter of 2014. In the year ending third quarter 2015, output in the EOE dipped by 1.1% (Table 1).

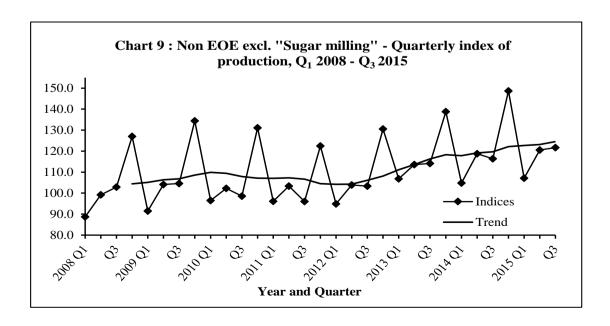


Lower level indices for the third quarter of 2015 are not yet available. However, an indication of the annual performance at sub group levels can be obtained by comparing indices available for year ending second quarter 2015 to those for year ending second quarter 2014 (Table 3). Real output of "Wearing apparel", the most important industrial grouping within the EOE, expanded by 0.6% while that of "Textiles" contracted by 4.7%. These two sub-groups account for 68% of the total weight allocated to the EOE. Positive growths of 8.0% and 15.3% have been observed in "Food products" and "Other manufacturing" respectively while negative growths of 8.1% and 10.9% were noted in "Computer, electronic and optical products" and "Jewellery, bijouterie & related articles n.e.c." respectively. Details of changes at sub-group level are shown in Chart 8.

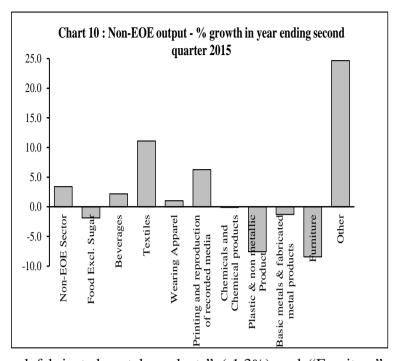


5.2 Non-EOE excluding "Sugar milling"

The real output of Non-EOE establishments expanded by 1.0% in the third quarter of 2015 compared to the previous quarter and by 4.6% compared to the corresponding quarter of 2014. In year ending third quarter 2015, the index grew by 4.0% (Table 1).



An indication of the annual performance at sub-group level is obtained by comparing detailed indices available for year ending second quarter 2015 to those for year ending second (Table quarter 2014 Expansions were registered in "Beverages" (+2.2%), "Textiles" (+11.1%), "Wearing Apparel" (+1.0%) "Printing and reproduction of recorded media" (+6.3%) and "Other Manufacturing" (+24.6%). Contractions were noted in "Food products excluding sugar" (-1.9%). "Chemicals and chemical products" (-0.1%),"Plastic and non-metallic



product" (-7.6%), "Basic metals and fabricated metal products" (-1.3%) and "Furniture" (-8.5%) as illustrated in chart 10.

Statistics Mauritius Ministry of Finance and Economic Development PORT LOUIS December 2015

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					Manufacturing			•	Water supply
	Industrial sector	Mining and quarrying	Total	Total exc. sugar milling	Sugar milling	EOE	Non-EOE	Electricity, gas, steam and air conditioning supply	sewrage, wast management an remediatio
NO.0 D	05 - 33, 35-39	05 - 09	10 - 33	10 - 33 except	10720	10 - 33	10 - 33	35	36-3
NSIC Rev. 2 Weight (Year 2007)	1000	20	899	10720 873	27	400	472		2
Annual	1000	20	699	613	21	400	412	00	
2008	103.3	101.5	103.2	103.2	103.5	101.7	104.4	107.1	99
2009	105.7	96.0	105.8	105.6	119.0	101.3	108.6		99
2010	107.6	100.2	107.5	107.3	114.2	107.7	107.1	112.0	98
2011	109.0	81.1	108.5	108.8	118.5	114.5	104.5	117.0	101
2012	111.2	74.4	110.9	111.4	111.0	116.1	108.1	122.2	103
2012	115.5	71.0	115.5	115.6	109.8	112.7	118.3	127.5	106
2014	118.0	67.5	118.1	118.0	110.4	113.7	122.1	132.6	109
Quarterly	110.0	07.5	110.1	110.0	110.4	113.7	122.1	132.0	109
2008 Q1	92.3	86.7	90.5	91.0	72.7	93.7	88.7	119.5	101
Q2	105.7	112.9	105.5	105.2	114.4	112.4	99.1	107.8	100
Q3	101.7	97.8	102.7	102.4	114.0	101.8	102.9	90.3	96
Q4	113.5	108.0	114.2	114.2	112.8	99.1	127.0		99
2009 Q1	91.3	76.4	89.2	89.3	83.6	86.3	91.4	117.8	97
Q2	106.7	111.6	106.4	105.8	131.6	108.3	104.1	110.4	100
Q3	102.6	94.3	103.9	103.2	131.1	101.3	104.5	89.8	100
Q4	122.4	101.5	124.3	124.2	129.8	109.3	134.4	110.4	98
2010 Q1	96.3	80.2	93.9	94.2	80.2	90.8	96.4	121.5	98
Q2	105.0	108.7	104.2	103.7	126.2	105.8	102.3		97
Q3	103.3	103.9	104.3	103.8	125.8	112.0	98.6	94.8	100
Q4	125.9	107.8	127.7	127.7	124.5	122.4	131.1	118.4	99
2011 Q1	101.7	94.0	99.2	99.5	83.2	103.4	96.1	127.7	102
Q2	110.8	85.2	110.6	110.2	131.0	119.0	103.4	119.5	103
Q3	106.0	73.2	107.5	107.1	130.5	123.0	96.0	101.4	98
Q4	117.4	72.0	118.7	118.4	129.2	112.4	122.4	119.2	100
2012 Q1	101.2	61.8	99.1	99.6	77.9	107.3	94.8	131.4	101
Q2	108.9	74.0	108.4	108.1	122.7	115.9	103.8	121.5	106
Q3	110.5	77.9	111.8	111.5	122.2	125.4	103.3	106.2	101
Q4	124.0	84.0	124.7	124.7	121.0	115.8	130.5		104
2013 Q1	106.9	60.3	105.0	105.6	77.1	104.8	106.8	140.0	104
Q2	113.6	69.1	113.5	113.4	121.4	114.9	113.6	124.6	107
Q3	113.8	77.3	114.9	114.8	120.9	117.3	114.1	110.1	103
Q4	127.9	77.3	128.5	128.7	119.7	113.6	138.8	135.4	109
2014 Q1	105.8	51.3	103.4	103.9	77.5	103.5	104.8	145.0	109
Q2	118.3	65.8	118.3	118.1	122.1	119.2	118.8	132.7	108
Q3	116.5	73.5	117.8	117.7	121.6	121.2	116.4	112.7	107
Q4	132.2	79.4	133.0	133.2	120.4	110.9	148.7	140.0	111
2015 Q1	108.6	52.4	105.4	105.9	71.6	104.9	107.1	151.1	112
Q2	119.5	65.7	119.1	119.1	112.8	118.8	120.6		111
Q3	118.7	74.0	119.5	119.6	112.3	118.0	121.7	114.4	110
% change, latest quarter over:	_								
previous quarter	-0.6	12.6	0.4	0.4	-0.4	-0.6	1.0	-15.6	-1
same quarter a year ago	-0.6 1.9	0.7	1.5	1.6	-0.4 -7.6	-2.6	4.6	1.5	2
		0.7	1.5	1.0	-1.0	-2.0	7.0	1.5	2.
% growth in output in year end	•	4.4	4.0	0.0	F 4	4.4	4.0	0.0	•
3rd quarter 2015	2.3	1.4	1.9	2.0	-5.4	-1.1	4.0	2.9	2

		Main industrial grouping									
	Total manufacturing	Printing and reproduction Basic Metals& fabricated anufacturing Food Incl. sugar Beverages Textile Wearing apparel of recorded media Chemical products Non Metallic Products metals								Furniture	Other
NSIC Rev. 2	10 -33	10	11	13	14	18	20 &21	22&23	24 & 25	75,16, 31	Other 17,19,26,27,28,29, 30,32,33
Weight (Year 2007)	1000	222	112	62	315	28	38	48	51	46	79
Annual											
2008	103.2	109.1	102.6	96.1	101.1	106.6	109.3	104.4	104.0	91.2	103.3
2009	105.8	117.0	102.6	74.5	105.9	115.1	110.6	99.7	105.3	102.8	205.6
2010	107.5	121.2	106.0	82.8	102.9	120.1	124.1	88.0	103.8	100.5	124.9
2011	108.5	114.9	114.1	96.3	104.2	99.5	120.1	92.6	102.8	92.2	110.9
2012	110.9	123.6	120.2	92.4	103.9	109.0	110.8	89.5	94.5	94.6	113.0
2013	115.5	123.1	117.5	90.8	107.3	107.5	106.1	101.4	91.2	98.5	137.9
2014	118.1	126.0	121.4	92.1	108.6	121.5	99.2	94.0	86.9	94.2	149.5
Quarterly											
2008 Q1	90.5	93.0	85.4	96.3	89.8	90.3	98.8	90.8	87.1	86.3	89.3
Q2	105.5	103.3	97.0	112.3	109.1	102.7	110.2	103.6	106.0	94.4	110.1
Q3	102.7	117.8	95.9	85.9	98.7	99.1	104.9	102.9	110.9	87.0	103.2
Q4	114.2	122.4	131.5	90.1	106.9	134.4	123.4	120.3	112.2	96.9	110.7
2009 Q1	89.2	91.9	83.4	68.5	98.6	92.6	84.7	82.7	85.3	87.4	172.0
Q2	106.4	125.0	91.6	72.2	110.0	109.7	95.2	108.0	102.6	90.3	203.3
Q3	103.9	120.8	89.8	73.1	100.7	109.3	110.4	98.7	109.0	112.7	196.3
Q4	124.3	130.4	145.0	84.1	114.4	148.8	152.2	109.3	124.3	120.6	250.8
2010 Q1	93.9	104.9	88.0	69.6	91.2	116.7	100.7	80.1	92.5	95.1	90.8
Q2	104.2	125.5	102.2	91.7	90.1	115.3	110.1	87.2	100.2	91.9	110.7
Q3	104.3	120.4	100.8	74.8	107.4	100.4	100.4	80.3	93.9	98.0	99.2
Q4	127.7	134.1	133.1	95.0	122.8	148.1	184.9	104.5	128.7	116.8	143.1
2011 Q1	99.2	105.6	94.5	100.7	91.0	86.1	105.4	86.1	109.3	104.3	105.5
Q2	110.6	122.7	111.2	112.3	102.0	98.9	122.7	87.6	100.9	86.0	124.1
Q3	107.5	107.5	105.7	83.5	115.9	92.7	109.3	91.6	97.5	96.3	117.5
Q4	118.7	123.9	145.0	88.7	108.1	120.1	143.2	104.9	103.5	81.9	152.4
2012 Q1	99.1	112.4	105.6	82.8	91.9	91.8	87.7	77.8	90.7	86.1	111.8
Q2	108.4	127.7	109.6	95.3	95.3	105.8	113.9	95.1	100.4	82.3	123.9
Q3	111.8	124.9	110.6	88.5	113.3	100.6	117.3	85.2	84.7	94.0	125.7
Q4	124.7	129.6	155.2	103.0	115.1	137.9	124.4	100.0	102.0	115.8	146.4
2013 Q1	105.0	114.3	98.2	72.5	100.7	90.1	90.9	80.2	97.6	103.9	137.7
Q2	113.5	125.6	107.7	99.4	103.4	102.1	98.1	101.2	84.2	83.9	159.3
Q3	114.9	126.6	113.4	85.5	110.1	99.9	107.4	103.9	83.2	97.3	142.3
Q4	128.5	125.8	150.7	105.9	115.1	138.0	128.0	120.7	100.0	108.9	180.3
2014 Q1	103.4	115.4	97.8	77.2	93.3	110.1	80.8	78.1	77.0	99.7	142.3
Q2	118.3	133.1	112.2	106.1	107.5	109.8	94.4	95.8	83.3	85.3	168.8
Q3	117.8	129.3	113.7	95.9	112.3	101.5	101.9	98.0	81.0	75.9	165.1
Q4	133.0	126.3	161.8	89.2	121.4	164.5	119.9	104.3	106.1	115.8	196.4
2015 Q1	105.4	124.1	102.9	80.4	90.7	118.8	86.4	73.8	77.1	90.6	145.5
Q2	119.1	136.4	114.3	102.8	104.6	100.5	103.6	92.4	77.0	75.8	189.0
% change, latest quarter over:											
previous quarter	13.0	9.9	11.1	27.9	15.3	-15.5	19.9	25.1	-0.1	-16.3	29.9
same quarter a year ago	0.7	2.5	1.8	-3.1	-2.7	-8.5	9.7	-3.6	-7.5	-11.1	11.9
% growth in output in year endi	ng:										
2nd quarter 2015	2.2	3.0	3.9	-1.7	0.7	6.0	0.3	-7.5	-0.6	-8.5	9.8

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Table 3: Index of industrial production by main industrial grouping of the EOE sector, $Q_1 2008$ to $Q_2 2015$

				Year 2007 = 100 ping				
					mputer, electronic and			
	EOE, Manufacturing	Food Products	Textiles	Wearing Apparel	optical products	Jewellery	Other Manufacturing	
NSIC Rev. 2	10 - 33	10	13	14	26	32100	11,15,16,17,18,20,21,22,25,27,32 except 32100,33	
Weight (Year 2007) Annual	1000	132	109	655	19	27	58	
2008	101.7	107.5	95.5	101.1	108.1	103.3	105.0	
2009	101.3	119.1	75.6	101.0	69.4	118.6	107.7	
2010	107.7	138.0	82.5	102.9	74.6	125.7	122.	
2011	114.5	135.6	100.0	104.7	93.1	118.7	139.	
2012	116.1	146.9	96.8	105.2	95.9	132.0	137.	
2013	112.7	138.5	92.6	109.0	97.3	97.3	125.2	
2014	113.7	145.3	91.0	110.6	102.2	89.5	131.8	
Quarterly								
2008 Q1	93.7	98.8	95.0	91.2	101.7	80.9	111.4	
Q2	112.4	107.2	117.4	111.4	122.8	112.9	122.3	
Q3	101.8	126.0	85.6	99.8	97.9	110.8	96.6	
Q3 Q4	99.1	98.0	84.2	101.9	109.9	108.6	89.9	
2009 Q1	86.3	77.9	71.8	94.0	71.6	58.0	81.2	
Q2	108.3	139.0	76.7	110.8	87.9	75.2	86.6	
Q3	101.3	130.2	75.0	99.0	55.4	113.6	105.9	
Q3 Q4	109.3	129.3	79.0	100.1	62.5	227.7	157.	
2010 Q1	90.8	94.7	67.8	93.3	60.1	98.5	97.3	
Q2	105.8	160.1	95.7	93.3	81.4	101.9	125.8	
Q3	112.0	137.6	74.1	111.8	67.1	125.1	119.	
Q3 Q4	122.4	159.5	92.5	113.3	89.8	177.5	146.	
2011 Q1	103.4	115.9	108.1	93.0	72.0	89.1	149.4	
Q2	119.0	148.5	118.6	105.1	109.9	94.8	161.	
Q3	123.0	133.4	89.4	118.8	96.1	129.3	137.8	
Q3 Q4	112.4	144.7	84.1	101.8	94.3	161.4	111.0	
2012 Q1	107.3	139.5	90.2	94.0	112.4	111.9	134.0	
2012 Q1 Q2	115.9	155.2	100.4	99.1	107.8	109.4	166.2	
Q2 Q3	125.4	150.7	92.1	117.8	84.3	142.8	146.8	
Q3 Q4	115.8	142.1	104.5	109.7	79.5	163.8	102.6	
2013 Q1	104.8	133.1	73.3	103.2	94.6	71.6	132.9	
2013 Q1 Q2	114.9	143.3	104.7	103.2	101.6	80.0	138.6	
Q3	117.3	147.6	86.8	114.5	96.7	86.9	131.8	
Q3 Q4	113.6	130.2	105.4	109.5	96.5	150.7	97.6	
2014 Q1	103.5	151.0	76.5	96.1	101.2	72.0	133.7	
2014 Q1 Q2	119.2	160.7	109.6	111.9	119.6	74.6	142.4	
Q2 Q3	121.2	155.7	99.8	116.4	96.4	91.3	140.2	
Q3 Q4	110.9		78.2	117.3	96.4 91.4		140	
2015 Q1	104.9	121.5 183.6	78.2 78.1	92.7	91.4 95.9	120.1 63.7	144.	
2015 Q1 Q2					96.8		187.8	
	118.8	175.9	104.3	108.1	90.0	67.4	187.0	
% change, latest quarter previous quarter	er over: 13.2	-4.2	33.4	16.6	0.9	5.9	30.3	
ame quarter a year ago	-0.3	9.4	-4.9	-3.4	-19.1	-9.6	31.9	
% growth in output in y		-	ŕ		•			
2nd quarter 2015	0.5	8.0	-4.7	0.6	-8.1	-10.9	15.3	

		Main industrial grouping									
	Non-EOE, manufacturing	Food Excl. Sugar	Beverages	Textiles	Wearing Apparel	Printing and reproduction of recorded media	Chemicals and Chemical products	Plastic & non metallic Product	Basic metals & fabricated metal products	Furniture	Other
NOIO D	40.00	40	44	40	44	40	00	00.8.00	04.005	0.4	15,16,17,19, 26-
NSIC Rev. 2	10-33 1000	10 254	11 212	13 25		18 49	20 64	22 & 23 86	24 <u>&25</u> 89	31 88	30,32 & 33
Weight (Year 2007) Annual											88
2008	104.4	111.1	102.5	98.3		108.2	103.3	105.5	105.3	91.2	103.6
2009	108.6	115.9	102.2	70.7		118.4	96.4	100.9	107.2	102.8	107.6
2010	107.1	116.3	104.2	83.7	102.5	122.4	98.8	88.9	106.3	100.4	114.5
2011	104.5	105.5	109.9	83.7	99.4	101.2	98.0	93.5	103.7	92.1	122.9
2012	108.1	115.8	112.6	75.7	92.6	111.0	102.3	90.4	94.5	94.6	127.7
2013	118.3	117.2	110.8	84.2		109.6	102.8	103.5	93.6	98.5	219.4
2014	122.1	117.2	113.3	96.5	92.2	124.0	99.2	95.5	89.5	94.2	253.9
Quarterly											
2008 Q1	88.7	94.9	85.5	100.9	71.6	89.2	83.3	92.0	88.1	86.3	87.3
Q2	99.1	99.1	97.0	93.5		103.2	99.8	103.6	106.8	94.4	105.5
Q3	102.9	115.1	95.9	87.2		101.8	107.0	103.7	111.6	87.0	102.3
Q4	127.0	135.3	131.3	111.7	169.3	138.5	123.3	122.6	114.7	96.9	119.4
2009 Q1	91.4	99.0	83.1	57.6	147.1	95.1	78.7	83.7	85.6	87.4	97.4
Q2	104.1	118.2	91.2	57.4	102.0	112.7	93.2	109.2	103.4	90.3	113.5
Q3	104.5	115.3	89.6	66.7	118.6	112.3	95.9	99.8	111.5	112.7	104.2
Q4	134.4	131.0	144.1	101.0		153.6	117.9	110.7	128.1	120.6	115.4
2010 Q1	96.4	111.9	88.1	76.4		119.1	86.2	81.2	96.0	95.1	95.8
Q2	102.3	113.2	100.3	76.7		116.7	97.1	88.1	102.3	91.9	119.1
Q3	98.6	113.6	98.2	77.3	76.5	101.7	86.8	81.7	94.9	98.0	98.9
Q4	131.1	126.5	130.3	104.4	190.2	152.1	125.1	104.7	131.8	116.8	144.4
2011 Q1	96.1	104.0	91.1	75.9	70.4	87.2	77.0	87.8	112.3	104.3	108.7
Q2	103.4	110.5	108.1	91.1	68.2	100.4	95.0	87.9	101.9	86.0	127.4
Q3	96.0	93.4	101.4	63.5		93.8	98.0	92.6	97.4	96.3	102.1
Q4	122.4	114.2	138.8	104.3	171.2	123.5	121.9	105.6	103.1	81.9	153.4
2012 Q1	94.8	106.1	98.8	54.8		93.0	80.3	78.6	90.2	86.1	108.3
Q2	103.8	116.9	102.9	76.0		107.2	95.5	95.8	100.1	82.3	124.7
Q3	103.3	114.5	103.5	74.6		102.0	109.2	86.2	83.3	94.0	126.6
Q4	130.5	125.6	145.0	97.3		141.9	124.4	101.4	104.2	115.8	151.3
2013 Q1	106.8	109.9	92.3	69.5		91.6	82.2	81.9	100.0	103.9	213.5
Q2	113.6	117.4	101.3	79.1	60.8	103.7	95.9	102.9	83.6	83.9	235.8
Q3	114.1	117.0	107.4	80.4	72.6	101.3	106.3	105.8	84.7	97.3	202.8
Q4	138.8	124.4	141.9	107.8	164.3	141.8	126.7	123.7	105.9	108.9	225.3
2014 Q1	104.8	101.9	90.2	80.1	68.4	111.9	80.4	79.3	79.4	99.7	225.0
Q2	118.8	120.6	105.7	91.8		111.4	94.4	97.4	84.3	85.3	261.4
Q3	116.4	117.0	107.1	80.2		102.7	101.3	99.9	83.1	75.9	248.4
Q4	148.7	129.4	150.1	133.8	157.5	169.8	120.7	105.9	111.1	115.8	280.9
2015 Q1	107.1	102.2	94.7	88.1	71.3	120.7	84.4	75.5	78.6	90.6	247.5
Q2	120.6	106.7	103.1	97.9	70.0	102.3	100.8	94.3	76.9	75.8	363.1
% change, latest quarter											
previous quarter	12.6	4.4	8.9	11.1	-1.8	-15.3	19.4	24.9	-2.2	-16.3	46.7
same quarter a year ago	1.5	-11.5	-2.4	6.7	5.5	-8.2	6.8	-3.3	-8.8	-11.1	38.9
% growth in output in yearned 2nd quarter 2015	ear ending: 3.4	-1.9	2.2	11.1	1.0	6.3	-0.1	-7.6	-1.3	-8.5	24.6

ANNEX

Quarterly Index of Industrial Production (QIIP) - Methodology

1 Introduction

The Index of Industrial Production shows the movement of the volume of output of the Industrial Sector. This index was calculated annually and published in the Digest of Industrial Statistics. Following the needs expressed by various institutions, both public and private, Statistics Mauritius decided to compile and disseminate the index on a quarterly basis. The compilation and dissemination of the Quarterly Index of Industrial Production is also one of the requirements of the International Monetary Fund (IMF) Special Data Dissemination Standard (SDDS).

2 Objectives

The Quarterly Index of Industrial Production (QIIP) is one of the most important industrial short-term indicators which aim at measuring, on a quarterly basis, the ups and downs of the volume of industrial output with a special focus on detecting, as early as possible, the turning points of the business cycle. This enables planners, decision makers and the business community at large to be aware of any sign of change in the progress of the economy in order to take appropriate and timely policy measures.

At the office level, the index based on "hard" data, provides useful and reliable inputs for the improvement of the annual production estimates and forecasts as well as estimates of quarterly value added for the Industrial Sector.

3 Concept/Definition

The basic concept of the Index of Industrial Production is the measurement of the change in real value added at basic prices. Given that value added is defined as the difference between output and input, the compilation of the index, on a quarterly basis, is faced with practical difficulties in obtaining the data required on inputs and outputs within a reasonable period. In the absence of detailed data for most of the different industrial groups, an approximation of the index is based on change in deflated turnover, physical output or other indicators of change in real value added generated by industrial enterprises. The indicators used by main industrial grouping/sector are as follows:

Sector/Industrial grouping	Indicators used				
Mining and quarrying	Value added deflated by appropriate deflators				
Industry groups within manufacturing (excluding sugar milling)	Use of proxy indicators i. Volume of production ii. Employment iii. Turnover data deflated by appropriate deflators (for most of the industry groups) iv. Consumption of raw materials				

Sector/Industrial grouping	Indicators used
Sugar milling	Value added deflated using the double deflation method. However, until final data are obtained quarterly changes are based on proportions of the deflated annual estimate/forecast. The proportions are computed from the latest quarterly cost structure of milling activities (see sections 7 and 8).
Electricity, gas, steam and air conditioning supply	Volume of electricity sales as indicator.
Water supply; sewerage, waste management and remediation activities	Volume of water sales as indicator. VAT data

The deflators used are the following price indices at detailed level, wherever possible:

- i. Producer Price Index (PPI)
- ii. Export Price Index (EPI)
- iii. Consumer Price Index (CPI)
- iv. Import Price Index (IPI)
- v. Wage Rate Index (WRI)

4 Scope/Classification

The Quarterly Index of Industrial Production covers the Industrial Sector, which comprises:

Mining and quarrying (NSIC Section B),

Manufacturing (NSIC Section C),

Electricity, Gas, Steam and Air conditioning Supply (NSIC Section D), and

Water Supply; Sewerage, Waste Management and Remediation Activities (NSIC Section E)

The industrial classifications used is according to the National Standard Industrial Classification (NSIC), Revision 2 based on the UN International Standard Industrial Classification (ISIC) of all economic activities, Rev. 4 of 2008, previous classifications used being NSIC Rev 1 based on ISIC, Rev. 3 of 1990.

Moreover QIIP series prior to 2007 covered only large establishments for Non EOE subsector. As from 2008, the index series cover both large and small establishments

The main changes between the two classifications, NSIC1 and 2 are:

"Electricity, gas and water supply" which was previously classified under section E has been split into "Electricity, gas, steam and air conditioning supply" and "Water supply; sewerage, waste management and remediation" and classified under sections D and E respectively. Section E comprises also the activities of "Sewerage, waste management and remediation activities" which was formerly part of section O in NSIC 1.

Publishing activities have shifted from the "Manufacturing" sector to "Information and Communication".

5 Compilation practices

The weights have been derived (separately for EOE and Non-EOE within the manufacturing sector) from value added at basic prices by detailed industry group (mostly at 5-digit level of activity classification) compiled from the 2007 Census of Economic Activities. A representative sample has been selected from the CEA 2007 data which covers the whole manufacturing sector. The VAT turnover for the selected establishments is used to derive the index. The index is calculated for each of the lowest level of activity classification and aggregation to the broader level is done as a weighted arithmetic average of the lowest level indices. Under this methodology the weights are revised every year.

6 Data sources

As mentioned previously, use is extensively made of proxy indicators for the calculation of the index and one such indicator is deflated turnover data. Turnover data are mainly obtained from the VAT (Value Added Tax) Department, which is a very important source of secondary data. The sources of data by industry are as follows:

Sector/Industrial grouping	Data sources
Mining and quarrying	 Survey of establishments Volume production of salt and sand Quarterly data from VAT Deflators used: change in producer prices
Industry groups within manufacturing (excluding sugar milling)	 Turnover data from VAT Department Trade statistics Quarterly Stock Survey Quarterly Survey of Employment among EOE Sales of excisable goods from the Mauritius Revenue Authority Continuous Multipurpose Household Survey (small establishments) Building permits statistics (small establishments) Deflators used: PPI M, and EPI components
Sugar milling	Survey of establishmentsDeflators used: PPI A components
Electricity, gas, steam and air conditioning supply	Returns from CEB and Independent Power Producers (IPPs) Volume of electricity sales
Water supply; sewerage, waste management and remediation activities	Returns from CWA and quarterly VAT data Volume of water sales

7 Problems/Constraints/Data quality

The practical difficulties in compiling an ideal index showing the evolution of value added at constant prices lead to the use of a number of approximation methods which are listed at section 3. Each of the methods has a number of constraints, the main ones being:

Deflated turnover:

- quality of data from VAT Department. The data refer to a mix of formal "large" responding enterprises/establishments. The output of secondary activities of an enterprise are included in turnover data corresponding to the main activity of the enterprise;
- time-lag between production and sales may lead to a late identification of a turning point in the business cycle;
- ignorance of changes in stocks gives a false picture of true production. However, based on available information from the Quarterly Stock Survey, adjustments are made, wherever possible, to take account of changes in stocks;
- the quality of the index is subject to the precision and relevance of the different price indices used for deflation.
- assumption based on a fixed ratio of value added to gross output when, in fact, the ratio
 may change as a result of technological changes, productivity changes as well as
 seasonal variation in the production structure

Consumption of raw materials:

• involves the assumption that output is constant per unit of materials used.

Employment:

does not take account of changes in labour productivity. Although, in the short term, it
is reasonable to assume that labour productivity is relatively constant, this is not true in
the long term;

Volume of production:

does not take account of quality changes

indicator

Indirect Indicators

• Indirect indicators such as household consumption and building permits have been used to estimate volume changes for certain activities of small establishments. The volume changes may be revised when more appropriate data sources are obtained or after the next Census of Economic Activities is carried out.

8 Appropriateness of the QIIP

In spite of the above constraints/weaknesses, it is observed that the index shows relative consistency and is of reliable quality for the measurement of quarterly and other changes. However, great care should be taken when interpreting small changes that may be insignificant at the more detailed level.

9 Index calculation

The QIIP is calculated according to a modified Laspeyre's index and the formula is:

$$\begin{split} I_t &= \frac{\sum W_i \; (Q_{it}/Q_{io})}{\sum W_i} \quad X \quad 100 \\ \\ with \quad I_t &= index \; for \; quarter \; t \\ W_i &= weight \; for \; activity \; i \\ \\ (Q_{it}/Q_{io}) &= is \; the \; growth \; in \; real \; value \; added \; of \; activity \; i \; in \; quarter \; t \\ &\quad relative \; to \; the \; base \; year \; as \; estimated \; by \; an \; appropriate \; proxy \end{split}$$