



REPUBLIC OF RWANDA



SEPTEMBER 2022 INDEX OF INDUSTRIAL PRODUCTION (IIP)

This is the monthly Index of Industrial Production (IIP). Series has been developed by the National Institute of Statistics of Rwanda (NISR) to provide more timely estimates of the broad trends of industrial output.

September 2022

Index of
Industrial
Production
(IIP)

November 2022

NATIONAL INSTITUTE OF STATISTICS OF RWANDA

Monthly Index of Industrial Production– Formal Activity–Sept 2022

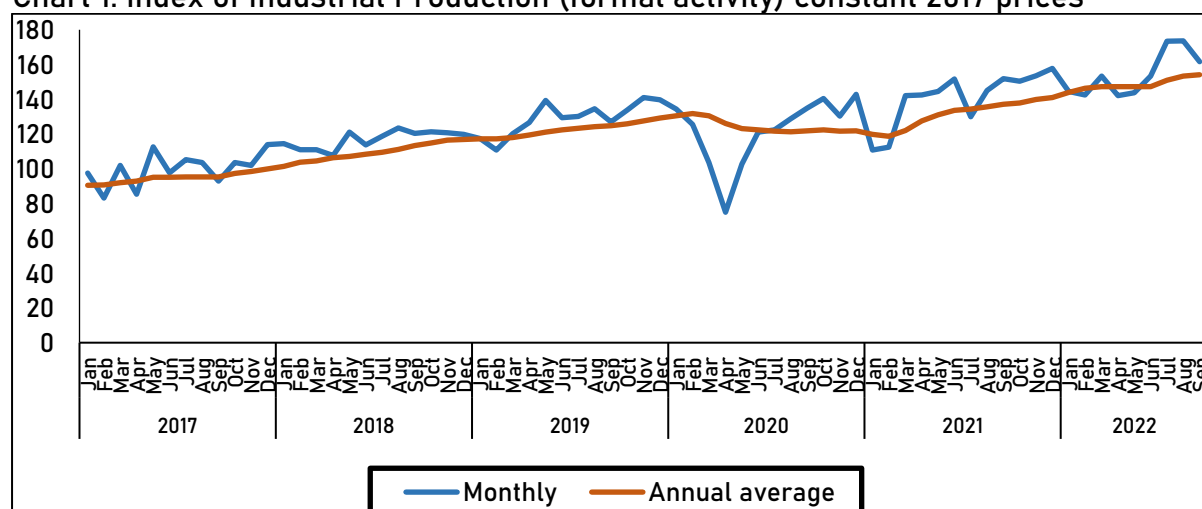
1. Summary

In September 2022, the Index of Industrial Production (IIP) shows that, industrial output (formal sector) increased by 6.4 percent compared to September 2021, against an increase of 12.4 percent on annual average basis.

Activities performed as follows:

- Mining and quarrying decreased by 52.6 percent.
- Manufacturing increased by 14.2 percent.
- Electricity increased by 10.3 percent; and
- Water and waste management increased by 20.0 percent

Chart 1: Index of Industrial Production (formal activity) constant 2017 prices



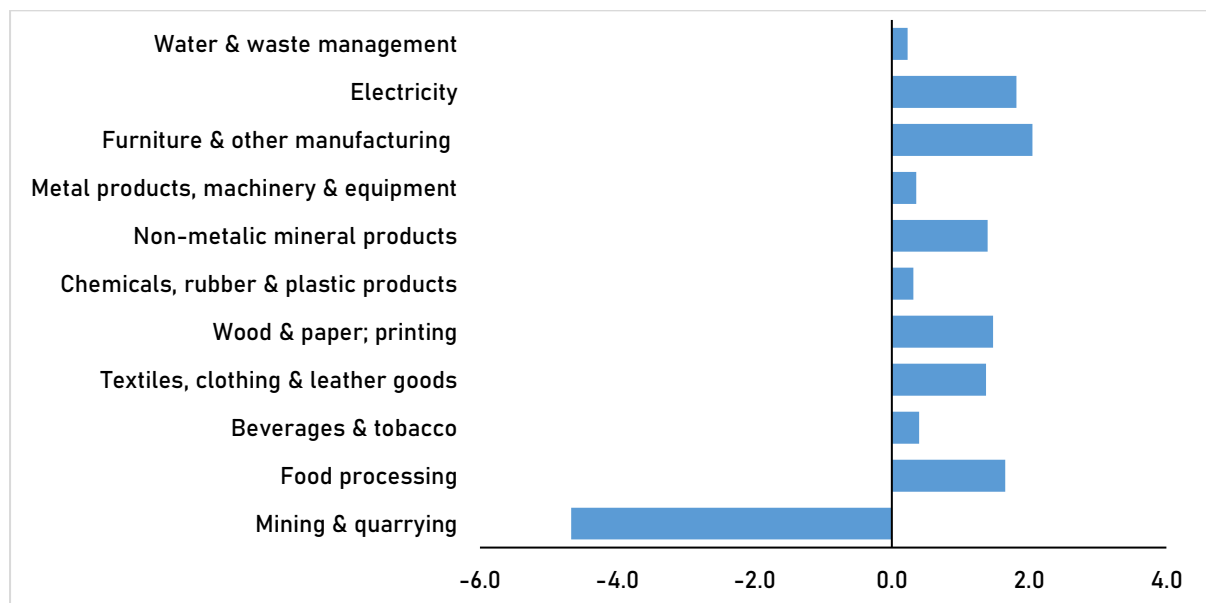
Source: NISR/ Index of Industrial Production

2. Details

As it is shown in the chart below, all activities have contributed positively to the annual change of the overall index, except the mining and quarrying activity which contributed negatively.

The manufacturing activity has registered positive changes in all its components. The positive change in manufacturing is mainly due to 6.4 percent increase in food processing, 13.2 percent increase in manufacturing of textiles, clothing and leather goods, 45.7 percent increase in manufacturing of wood, paper and printing, 38.7 percent increase in manufacturing of non-metallic mineral products and 62.4 percent increase in furniture and other manufactured products.

Chart 2: Contribution to percentage change (Sept 2022 compared to Sept 2021)



Source: NISR/ Index of Industrial Production

Table 1: Index of Industrial Production, formal activity, 2017=100, monthly

	Mining & quarrying	Manufacturing of:									Electricity	Water & waste management	General Index
		Food processing	Beverages & tobacco	Textiles, clothing & leather goods	Wood & paper; printing	Chemicals, rubber & plastic products	Non-metallic mineral products	Metal products, machinery & equipment	Furniture & other manufacturing	Manufacturing Total			
Jan 2020	141.9	116.6	131.0	256.4	128.7	161.2	131.9	139.0	137.9	138.8	118.9	111.9	134.3
Feb 2020	125.3	98.3	123.3	302.5	117.6	159.5	125.0	131.6	97.7	125.7	116.2	101.6	125.5
Mar 2020	64.0	100.8	96.0	165.5	65.3	148.4	90.3	128.6	86.8	112.7	118.2	108.0	103.5
Apr 2020	33.2	84.0	78.2	100.1	74.4	104.1	57.1	35.3	14.8	75.7	98.2	100.8	75.0
May 2020	28.1	111.0	103.3	117.1	65.9	100.6	153.7	142.7	142.7	124.7	114.7	107.2	102.8
June 2020	70.2	133.8	120.8	123.8	137.7	138.7	128.1	161.1	154.1	146.9	115.6	114.4	121.2
July 2020	53.3	124.7	143.1	123.8	67.7	132.6	176.6	182.9	140.6	152.7	115.6	114.4	121.2
Aug 2020	41.7	101.2	145.8	271.2	143.6	186.4	154.5	218.8	134.9	153.0	126.1	125.6	128.8
Sept 2020	49.8	123.1	134.3	194.0	207.3	164.6	232.7	245.9	141.3	169.6	123.1	119.2	134.9
Oct 2020	46.3	120.5	131.5	370.2	151.5	172.5	180.2	294.4	129.7	172.6	129.0	118.6	140.5
Nov 2020	49.9	102.8	128.2	358.7	142.1	190.9	181.5	182.2	107.8	141.7	127.4	114.5	130.3
Dec 2020	35.7	119.3	153.7	392.7	195.4	194.9	177.7	200.9	156.5	160.0	130.5	123.9	142.9
Jan 2021	42.6	89.8	133.0	235.5	121.6	134.1	124.2	114.8	76.4	113.5	126.9	123.5	110.8
Feb 2021	38.6	89.6	122.8	248.6	138.1	160.3	133.4	153.2	120.2	121.6	116.3	110.3	112.5
Mar 2021	43.6	129.5	155.1	326.8	185.2	166.5	178.6	206.0	141.6	161.2	133.8	120.1	142.2
Apr 2021	56.4	116.9	151.5	375.3	215.7	174.7	183.1	182.6	139.3	153.3	132.5	124.3	142.5
May 2021	47.2	101.9	162.4	458.7	199.2	183.0	186.7	178.3	152.9	151.1	136.0	127.8	144.6
Jun 2021	91.1	110.6	160.5	318.4	183.8	224.3	213.4	174.6	203.8	155.3	140.6	142.7	151.6
July 2021	19.7	117.3	155.9	300.6	146.9	135.9	185.9	140.0	103.3	140.0	139.3	155.4	130.0
Aug 2021	67.3	157.1	112.4	325.9	181.3	195.8	105.3	211.2	173.6	163.6	139.4	136.6	145.0
Sept 2021	103.9	163.4	122.6	350.5	189.0	182.4	107.7	185.8	146.8	163.3	142.0	124.4	151.9
Oct 2021	69.8	158.8	121.7	391.2	172.2	199.3	96.3	195.6	161.0	160.5	149.2	130.8	150.3
Nov 2021	44.6	168.9	148.2	374.0	171.5	164.7	231.9	165.5	120.8	172.7	138.2	148.5	153.6
Dec 2021	44.8	173.3	155.6	366.0	169.8	181.3	219.8	173.6	144.0	178.8	141.5	150.4	157.7
Jan 2022	44.4	134.0	154.9	366.5	151.9	135.2	210.1	152.9	158.0	155.2	143.4	149.2	144.4
Feb 2022	38.6	146.9	140.0	390.0	213.1	160.9	130.0	180.0	120.2	168.5	135.6	131.9	142.5
Mar 2022	30.8	156.3	155.8	367.2	218.1	213.4	128.9	178.5	154.1	176.4	154.9	149.5	153.4
Apr 2022	27.8	134.2	138.1	374.1	237.8	188.8	108.3	195.7	133.1	163.6	149.6	143.5	142.1
May 2022	67.8	132.1	146.0	269.6	155.9	196.3	167.8	153.1	139.2	140.1	153.1	146.4	143.7
Jun 2022	73.7	139.0	153.1	330.6	165.4	235.1	177.5	151.3	166.6	162.6	149.9	150.1	153.3
Jul 2022	93.9	174.5	167.1	322.3	217.3	292.1	157.3	203.1	172.2	196.4	153.4	161.5	173.3
Aug 2022	90.9	178.4	134.6	358.7	259.1	228.5	181.8	228.7	244.0	201.9	160.5	156.7	173.6
Sept 2022	49.3	173.9	126.1	396.8	275.3	190.9	149.4	197.8	238.3	186.4	156.6	149.2	161.6

Source: NISR/ Index of Industrial Production

Table 2: Index of Industrial Production, formal activity, 2017=100, percentage change on same month in previous year

	Mining & quarrying	Manufacturing of:									Manufacturing Total	Electricity	Water & waste management	General Index
		Food processing	Beverages & tobacco	Textiles, clothing & leather goods	Wood & paper; printing	Chemicals, rubber & plastic products	Non-metallic mineral products	Metal products, machinery & equipment	Furniture & other manufacturing					
Jan 2020	101.5%	-9.7%	10.4%	28.0%	3.9%	10.6%	32.0%	25.1%	42.7%	7.7%	3.2%	1.8%	14.4%	
Feb 2020	98.6%	17.5%	13.8%	58.6%	-16.3%	33.4%	29.7%	15.2%	-34.3%	3.1%	9.0%	0.8%	13.2%	
Mar 2020	18.7%	21.7%	-5.9%	-35.6%	-59.8%	10.7%	-45.6%	-2.9%	-21.5%	-15.0%	1.7%	-0.8%	-13.9%	
Apr 2020	-59.4%	37.4%	-38.6%	-49.6%	-58.7%	-40.3%	-49.7%	-71.7%	-88.2%	-43.5%	-13.9%	-3.9%	-40.7%	
May2020	-72.7%	-11.9%	-28.1%	-57.9%	-67.9%	-48.4%	25.6%	-12.6%	10.8%	-14.6%	-5.6%	-2.5%	-26.2	
Jun 2020	34.5%	22.2%	16.9%	-49.4%	-20.8%	-9.4%	-16.9%	-36.6%	8.6%	-8.3%	0.2%	4.4%	-6.4%	
Jul 2020	18.3%	9.8%	-4.7%	-58.3%	-56.5%	-16.6%	19.0%	21.5%	-11.8%	8.1%	1.6%	5.1%	-6.0%	
Aug 2020	-48.9%	-22.9%	2.8%	-8.1%	4.7%	16.3%	23.4%	42.3%	6.0%	3.4%	2.4%	6.5%	-4.3%	
Sep 2020	-49.3%	7.0%	13.0%	-30.0%	62.0%	16.4%	66.1%	50.2%	17.0%	21.5%	2.6%	12.3%	6.1%	
Oct 2020	-62.0%	-8.7%	10.1%	36.8%	9.5%	17.7%	56.1%	93.3%	-6.7%	20.1%	6.2%	7.4%	5.0%	
Nov 2020	-72.2%	-24.7%	15.5%	20.6%	39.3%	15.7%	34.3%	33.7%	-12.5%	-0.4%	9.3%	8.4%	-7.6%	
Dec 2020	-72.9%	-0.3%	6.2%	4.9%	45.8%	21.3%	74.1%	51.6%	17.9%	12.0%	8.2%	17.8%	2.3%	
Jan 2021	-69.9%	-23.0%	1.5%	-8.1%	-5.5%	-16.9%	-5.8%	-17.4%	-44.6%	-18.3%	6.7%	10.4%	-17.5%	
Feb 2021	-69.2%	-8.9%	-0.4%	-17.8%	17.5%	0.5%	6.7%	16.4%	23.1%	-3.3%	0.1%	8.6%	-10.3%	
Mar 2021	-32.0%	28.4%	61.5%	97.5%	183.6%	12.2%	97.8%	60.2%	63.2%	43.0%	13.1%	11.2%	37.3%	
Apr 2021	69.7%	39.1%	93.8%	274.8%	189.9%	67.8%	220.6%	417.7%	843.7%	102.5%	35.0%	23.3%	90.0%	
May2021	68.0%	-8.2%	57.3%	291.8%	202.1%	82.0%	21.5%	25.0%	7.1%	21.2%	18.6%	19.2%	40.7%	
Jun 2021	29.7%	-17.4%	32.8%	157.2%	33.5%	61.7%	66.6%	8.4%	32.3%	5.8%	21.6%	24.7%	25.1%	
July 2021	-63.1%	-5.9%	9.0%	185.7%	117.1%	2.5%	5.3%	-23.4%	-26.5%	-8.3%	12.1%	24.9%	6.2%	
Aug 2021	41.6%	48.8%	-20.9%	11.9%	30.2%	39.8%	-15.2%	-1.3%	25.2%	16.7%	11.7%	8.5%	14.8%	
Sep 2021	108.8%	32.8%	-8.7%	80.6%	-8.8%	10.8%	-53.7%	-24.5%	3.9%	-3.7%	15.4%	4.3%	12.6%	
Oct 2021	50.6%	31.8%	-7.5%	5.7%	13.7%	15.6%	-46.6%	-33.6%	24.2%	-7.0%	15.6%	10.3%	7.0%	
Nov 2021	-10.5%	64.3%	15.6%	4.2%	20.7%	-13.7%	27.7%	-9.2%	12.1%	21.9%	8.5%	29.7%	17.9	
Dec 2021	25.6%	45.2%	1.2%	-6.8%	-13.1%	-7.0%	23.7%	-13.6%	-8.0%	11.8%	8.4%	21.4%	10.3%	
Jan 2022	4.1%	49.2%	16.5%	55.6%	24.9%	0.9%	69.1%	33.2%	106.8%	36.8%	13.0%	20.8%	30.3%	
Feb 2022	0,0%	64,0%	14,0%	56,9%	54,3%	0,4%	-2,6%	17,5%	0,0%	38,6%	16,6%	19,6%	26,6%	
Mar 2022	-29.4%	20.7%	0.5%	12.3%	17.8%	28.2%	-27.8%	-13.3%	8.8%	9.4%	15.8%	24.5%	7.9%	
Apr 2022	-50.8%	14.8%	-8.8%	-0.3%	10.2%	8.0%	-40.9%	7.2%	-4.5%	6.7%	12.9%	15.4%	-0.3%	
May 2022	43.6%	29.6%	-10.1%	-41.2%	-21.7%	7.2%	-10.1%	-14.2%	-9.0%	-7.3%	12.6%	14.5%	-0.6%	
Jun 2022	-19.1%	25.7%	-4.6%	3.8%	-10.0%	4.8%	-16.8%	-13.4%	-18.3%	4.7%	6.6%	5.2%	1.1%	
Jul 2022	377.2%	48.7%	7.2%	7.2%	47.9%	114.8%	-15.4%	45.1%	66.6%	40.3%	10.1%	3.9%	33.3%	
Aug 2022	35.2%	13.6%	19.7%	10.0%	42.9%	16.7%	72.7%	8.3%	40.5%	23.5%	15.1%	14.7%	19.7%	
Sep 2022	-52.6%	6.4%	2.9%	13.2%	45.7%	4.6%	38.7%	6.5%	62.4%	14.2%	10.3%	20.0%	6.4%	

Source: NISR/ Index of Industrial Production

Table 3: Index of Industrial Production, formal activity, 2017=100, annual average

	Mining & quarrying	Manufacturing of:									Electricity	Water & waste management	General Index
		Food processing	Beverages & tobacco	Textiles, clothing & leather goods	Wood & paper; printing	Chemicals, rubber & plastic products	Non-metallic mineral products	Metal products, machinery & equipment	Furniture & other manufacturing	Manufacturing Total			
Jan 2020	97.8	123.5	128.7	266.1	148.8	155.8	129.2	151.4	132.9	140.9	118.1	109.1	130.6
Feb 2020	103.0	121.8	129.9	275.4	146.9	159.2	131.6	152.8	128.7	141.2	118.9	109.2	131.8
Mar 2020	103.9	119.5	129.4	267.8	138.8	160.4	125.3	152.5	126.7	139.6	119.0	109.1	130.4
Apr 2020	99.8	115.3	125.3	259.6	130.0	154.5	120.6	145.1	117.5	134.7	117.7	108.8	126.1
May 2020	93.6	114.0	121.9	246.2	118.4	146.6	123.2	143.4	118.7	133.0	117.1	108.6	123.1
Jun 2020	95.1	116.0	119.9	236.1	115.4	145.4	121.0	135.6	119.7	131.8	117.2	109.0	122.4
July 2020	94.1	117.0	119.3	223.8	108.0	143.2	123.4	138.3	118.1	132.8	117.3	109.5	121.7
Aug 2020	90.8	114.5	119.6	221.8	108.6	145.4	125.8	143.7	118.7	132.2	117.6	110.1	121.3
Sept 2020	86.7	115.1	120.9	214.9	115.2	147.4	133.6	150.6	120.5	135.7	117.8	111.2	121.9
Oct 2020	80.4	114.2	121.9	223.2	116.3	149.5	138.9	162.4	119.7	138.1	118.5	111.9	122.5
Nov 2020	69.6	111.4	123.4	228.3	119.6	151.7	142.8	166.2	118.4	138.1	119.4	112.6	121.6
Dec 2020	61.6	111.3	124.1	229.8	124.7	154.5	149.1	171.9	120.4	139.5	120.2	114.2	121.9
Jan 2021	53.3	109.1	124.3	228.0	124.2	152.3	148.5	169.9	115.3	137.4	120.9	115.1	119.9
Feb 2021	46.1	108.4	124.2	223.6	125.9	152.3	149.2	171.7	117.1	137.0	120.9	115.9	118.8
Mar 2021	44.4	110.8	129.1	237.0	135.9	153.8	156.5	178.2	121.7	141.1	122.2	116.9	122.0
Apr 2021	46.3	113.5	135.3	259.9	147.6	159.7	167.0	190.4	132.1	147.5	125.0	118.8	127.7
May 2021	47.9	112.7	140.2	288.4	158.7	166.6	169.8	193.4	132.9	149.7	126.8	120.6	131.1
Jun 2021	49.7	110.8	143.5	304.6	162.6	173.7	176.9	194.5	137.1	150.5	128.9	122.9	133.7
July 2021	46.9	110.2	144.6	320.9	169.2	174.0	177.7	191.0	134.0	149.4	130.1	125.5	134.3
Aug 2021	49.0	114.9	141.8	325.5	172.3	174.8	173.6	190.3	137.2	150.3	131.2	126.4	135.7
Sep 2021	53.5	118.2	140.8	338.5	170.8	176.3	163.2	185.3	137.7	149.7	132.8	126.8	137.1
Oct 2021	55.5	121.4	140.0	340.2	172.5	178.5	156.2	177.1	140.3	148.7	134.5	127.9	137.9
Nov 2021	55.0	126.9	141.6	341.5	175.0	176.3	160.4	175.7	141.4	151.3	135.4	130.7	139.8
Dec 2021	55.8	131.4	141.8	339.3	172.9	175.2	163.9	173.4	140.3	152.9	136.3	132.9	141.1
Jan 2022	55.9	135.1	143.6	350.2	175.4	175.3	171.0	176.6	147.1	156.4	137.7	135.0	143.9
Feb 2022	55.9	139.9	145.1	362.0	181.6	175.3	170.7	178.8	147.1	160.3	139.3	136.8	146.4
Mar 2022	54.9	142.1	145.1	365.4	184.4	179.3	166.6	176.6	148.2	161.6	141.1	139.3	161.6
Apr 2022	52.5	143.6	144.0	365.3	186.2	180.4	160.4	177.6	147.6	162.4	142.5	140.9	147.3
May 2022	54.2	146.1	142.6	349.5	182.6	181.5	158.8	175.5	146.5	161.5	143.9	142.4	147.2
Jun 2022	52.8	148.4	142.0	350.5	181.1	182.4	155.8	173.6	143.4	162.1	144.7	143.1	147.3
Jul 2022	58.9	153.2	143.0	352.3	186.9	195.4	153.4	178.9	149.1	166.8	145.9	143.6	150.9
Aug 2022	60.9	155.0	144.8	355.0	193.4	198.2	159.8	180.3	155.0	170.0	147.6	145.2	153.3
Sept 2022	56.4	155.9	145.1	358.9	200.6	198.9	163.2	181.3	162.6	171.9	148.8	147.3	154.1

Source: NISR/ Index of Industrial Production

Table 4: Linking factors between old base and new base (linking year = 2017)

	Mining & quarrying	Manufacturing of:									Electricity	Water & waste management	General Index
		Food processing	Beverages & tobacco	Textiles, clothing & leather goods	Wood & paper; printing	Chemicals, rubber & plastic products	Non-metallic mineral products	Metal products, machinery & equipment	Furniture & other manufacturing	Manufacturing Total			
Linking factors	1.29	1.28	1.00	2.25	1.18	1.62	1.95	1.69	1.23	1.29	1.32	1.14	1.29

Source: NISR/Index of Industrial Production

Note:

-The series from 2017 are based on the new weights.

-For the years before 2017, the growth rates of old series are preserved by dividing the old series by the above linking factors.

Notes

The Index of Industrial Production (IIP) is a statistical instrument used to monitor the monthly trends in output of industrial activities. It is developed based on a range of short term (monthly) indicators of economic activity.

The IIP series were developed since 2017 and the first publication was done in June 2019. In this publication a series from January 2011 have been compiled and availed to the public. Moreover, figures in this publication are the results of the 2017 rebasing exercise explained below in this note.

The IIP in this statistical release relates to the activity of businesses in the formal sector in Rwanda, defined as those registered with the tax authorities. The IIP series is entirely consistent with the quarterly estimates of Gross Value Added published by NISR, which still provide the most comprehensive and detailed assessment of economic activity.

The scope of the IIP as recommended by the United Nations Statistical Office (UNSO) includes mining and quarrying, manufacturing, construction, electricity, gas and water production and supply. But due to constraints of data availability, the IIP compiled in Rwanda has excluded construction activities.

2017 Rebasing

The National Institute of Statistics of Rwanda finalised new series that are based on the 2017 weights replacing old series based on 2014 weights. The International best practice recommends doing it at least once in five years but in Rwanda it is compiled every three years due to the availability of information collected at a higher frequency. Note that the series from 2017 are based on the 2017 weights. For the years before 2017, the growth rates of old series are preserved by dividing the published indices by the linking factors found in the above table 4.

The IIP is produced based on monthly indicators of the volume of economic activity for eleven Rwanda Classification of Products by Activity (RCPA). These are weighted together based on the gross value added in the reference year for the series (currently, 2017), consistent with the estimates of published value added within the Gross Domestic Product series, see table 5.

The correspondence table between RCPA and ISIC (International Standard Industrial Classification) Revision 4 is shown in Table 6.

Table 5: 2017 Gross Value Added

RCPA	Activity	Gross Value Added (RWF, billions)	Percentage of total GVA
B	Mining & quarrying	57.4	13.0%
CA	Manufacturing of food processing	105.8	23.9%
CB	Manufacturing of beverages & tobacco	75.3	17.0%
CC	Manufacturing of textiles, clothing & leather goods	19.9	4.5%
CD	Manufacturing of wood & paper; printing	11.5	2.6%
CE	Manufacturing of chemicals, rubber & plastic products	25.0	5.7%
CF	Manufacturing of non-metallic mineral products	22.4	5.1%
	Manufacturing of metal products, machinery & equipment	20.0	4.5%
CG			
CH	Furniture & other manufacturing	15.0	3.4%
D	Electricity	83.6	18.9%
E	Water & waste management	6.2	1.4%
	Total	442.1	100.0%

Source: NISR/ Index of Industrial Production

Table 6: Matching table between Rwanda Products Classification by Activity (RPCA) and International Standard Industrial Classification Revision 4 (ISIC Rev 4)

RPCA (Rwanda Classification of Products by Activity)			ISIC Rev.4 (here R stands for Rwanda)		
Code	Level	Description	Code	Code1	Description
B	2	Mining and quarrying	R	RB	Mining and quarrying
CA	4	Manufacturing of food	RC	RC10	Manufacture of food products
CB	4	Manufacturing of beverages & tobacco	RC	RC11	Manufacture of beverages
			RC	RC12	Manufacture of tobacco products
CC	4	Manufacturing of textiles, clothing & leather goods	RC	RC13	Manufacture of textiles
			RC	RC14	Manufacture of wearing apparel
			RC	RC15	Manufacture of leather and related products
CD	4	Manufacturing of wood & paper; printing	RC	RC16	Manufacture of wood and of products of wood and cork, except furniture; Manufacture of articles of straw and plaiting materials
CD	4	Manufacturing of wood & paper; printing	RC	RC17	Manufacture of paper and paper products
			RC	RC18	Printing and reproduction of recorded media
CE	4	Manufacturing of chemicals, rubber & plastic products	RC	RC19	Manufacture of coke and refined petroleum products
			RC	RC20	Manufacture of chemicals and chemical products
			RC	RC21	Manufacture of pharmaceuticals, medicinal chemical and botanical products
			RC	RC22	Manufacture of rubber and plastics products
CF	4	Manufacturing of non-metallic mineral products	RC	RC23	Manufacture of other non-metallic mineral products
CG	4	Manufacturing of metal products, machinery & equipment	RC	RC24	Manufacture of basic metals
			RC	RC25	Manufacture of fabricated metal products, except machinery and equipment
			RC	RC26	Manufacture of computer, electronic and optical products
			RC	RC27	Manufacture of electrical equipment
			RC	RC28	Manufacture of machinery and equipment n.e.c.
			RC	RC29	Manufacture of motor vehicles, trailers and semi-trailers
			RC	RC30	Manufacture of other transport equipment
CH	4	Furniture & other manufacturing	RC	RC31	Manufacture of furniture
			RC	RC32	Other manufacturing
			RC	RC33	Repair and installation of machinery and equipment
D	2	Electricity	RD	RD35	Electricity, gas, steam and air conditioning supply
E	2	Water & waste management	RE	RE36	Water collection, treatment and supply

Source: NISR/ Index of Industrial Production

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