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STATISTICAL RELEASE

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Manufacturing: Production and sales (Preliminary)

June 2020

The disruptions resulting from the COVID-19 lockdown have affected Statistics South Africa's operations.

Please see the note on page 6 for further information on the impact of the pandemic on the estimates.

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The South Africa I know, the home I understand



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Production: results for June 2020

Table A – Key growth rates in the volume of manufacturing production

	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
Year-on-year % change, unadjusted	-1,9	-2,1	-5,2	-49,3	-32,4	-16,3
Month-on-month % change, seasonally adjusted	3,0	-2,6	-1,1	-44,4	30,4	16,8
3-month % change, seasonally adjusted ¹	-1,9	-2,5	-2,1	-16,9	-25,4	-30,2

¹ Percentage change between the previous 3 months and the 3 months ending in the month indicated.

The COVID-19 pandemic and lockdown regulations since 27 March 2020 have had an extensive impact on economic activity.

Manufacturing production decreased by 16,3% in June 2020 compared with June 2019. The largest contributions were made by the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (-19,6% and contributing -3,7 percentage points);
- food and beverages (-11,4% and contributing -3,4 percentage points);
- motor vehicles, parts and accessories and other transport equipment (-38,8% and contributing -3,2 percentage points);
- wood and wood products, paper, publishing and printing (-24,5% and contributing -2,7 percentage points); and
- furniture and 'other' manufacturing (-46,0% and contributing -1,3 percentage points) – see Tables 5 and 6.

Seasonally adjusted manufacturing production increased by 16,8% in June 2020 compared with May 2020. This followed month-on-month changes of 30,4% in May 2020 and -44,4% in April 2020 – see Table A.

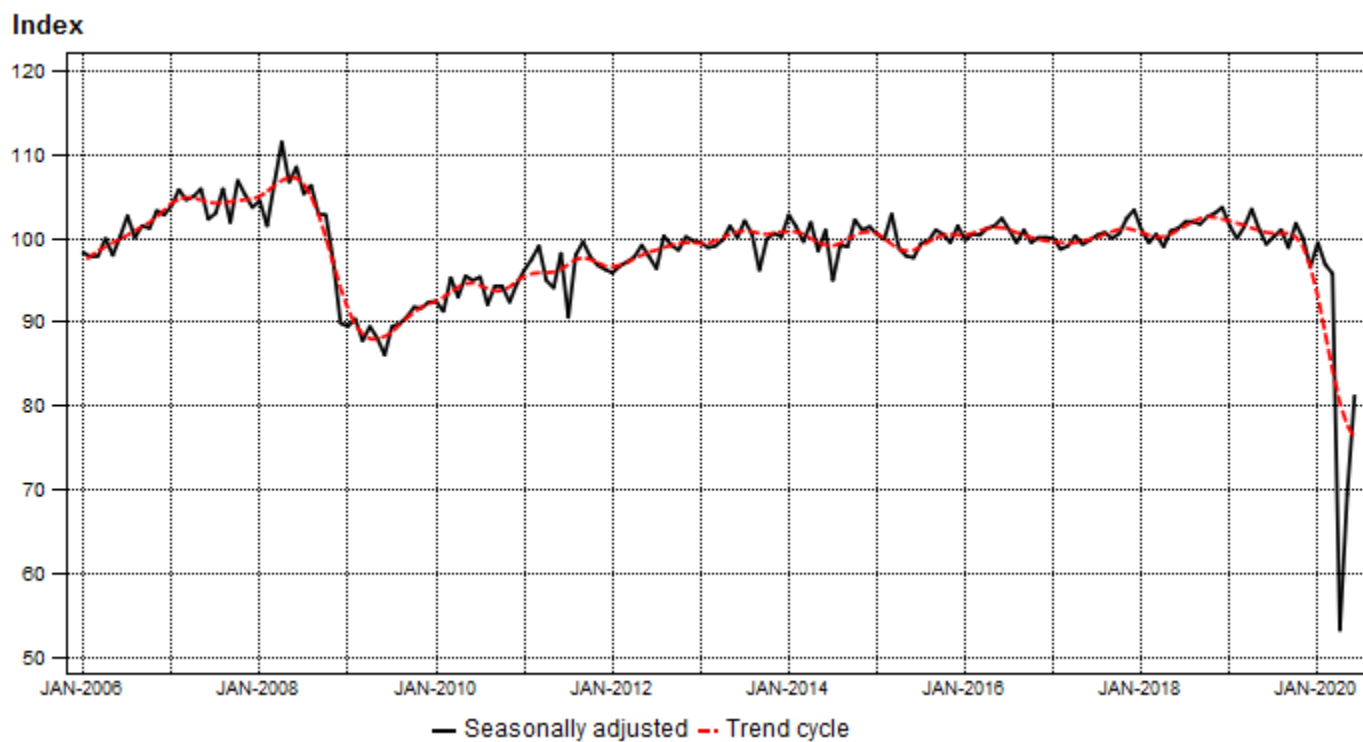
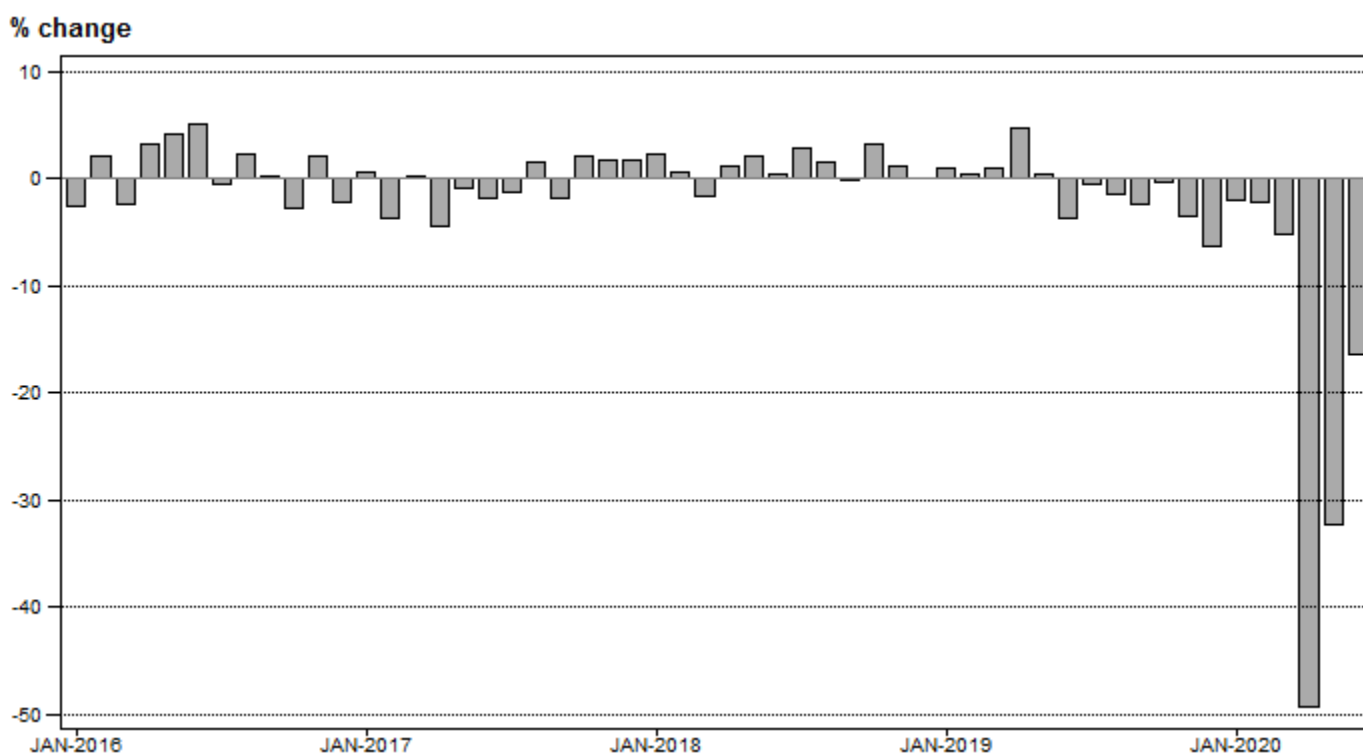
Seasonally adjusted manufacturing production decreased by 30,2% in the second quarter of 2020 compared with the first quarter of 2020. All ten manufacturing divisions reported negative growth rates over this period.

The largest negative contributions were made by the following divisions:

- basic iron and steel, non-ferrous metal products, metal products and machinery (-36,6% and contributing -6,8 percentage points);
- food and beverages (-17,4% and contributing -5,2 percentage points);
- petroleum, chemical products, rubber and plastic products (-22,8% and contributing -5,2 percentage points);
- motor vehicles, parts and accessories and other transport equipment (-62,8% and contributing -4,6 percentage points); and
- wood and wood products, paper, publishing and printing (-31,3% and contributing -3,3 percentage points) – see Table B.

Table B – Seasonally adjusted manufacturing production for the latest three months by division and major group (Base: 2015=100)

Manufacturing division and major group	Weights	Jan – Mar 2020	Apr – Jun 2020	% change between Jan – Mar 2020 and Apr – Jun 2020	Contribution (% points) to the total % change
Food and beverages	26,64	108,9	89,9	-17,4	-5,2
Meat, fish, fruit, etc.	6,69	105,9	97,7	-7,7	-0,6
Dairy products	2,15	107,2	106,0	-1,1	0,0
Grain mill products	3,37	99,1	99,5	0,4	0,0
Other food products	8,14	119,3	108,7	-8,9	-0,9
Beverages	6,29	104,3	46,7	-55,2	-3,7
Textiles, clothing, leather and footwear	3,12	79,1	47,9	-39,4	-1,0
Textiles	0,78	87,6	50,6	-42,2	-0,3
Other textile products	0,40	87,5	48,9	-44,1	-0,2
Knitted, crocheted articles	0,09	63,4	31,2	-50,8	0,0
Wearing apparel	1,04	73,1	54,1	-26,0	-0,2
Leather and leather products	0,46	63,4	40,0	-36,9	-0,1
Footwear	0,35	93,3	37,1	-60,2	-0,2
Wood and wood products, paper, publishing and printing	11,45	89,7	61,6	-31,3	-3,3
Sawmilling and planing of wood	1,73	88,8	49,3	-44,5	-0,7
Products of wood	2,57	96,0	52,7	-45,1	-1,1
Paper and paper products	4,14	91,7	85,5	-6,8	-0,3
Publishing	1,43	69,7	48,6	-30,3	-0,3
Printing, recorded media	1,58	93,3	39,0	-58,2	-0,9
Petroleum, chemical products, rubber and plastic products	23,07	96,0	74,1	-22,8	-5,2
Coke, petroleum products and nuclear fuel	8,67	91,3	56,8	-37,8	-3,1
Basic chemicals	4,29	101,2	88,5	-12,5	-0,6
Other chemical products	6,19	96,0	89,6	-6,7	-0,4
Rubber products	1,24	96,8	49,1	-49,3	-0,6
Plastic products	2,68	102,9	82,9	-19,4	-0,6
Glass and non-metallic mineral products	3,18	87,8	42,4	-51,7	-1,5
Glass and glass products	0,66	110,3	68,3	-38,1	-0,3
Non-metallic mineral products	2,52	81,9	35,6	-56,5	-1,2
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	96,6	61,2	-36,6	-6,8
Basic iron and steel products	3,57	107,4	38,9	-63,8	-2,5
Non-ferrous metal products	2,58	94,0	85,5	-9,0	-0,2
Structural metal products	1,99	85,7	46,2	-46,1	-0,8
Other fabricated metal products	3,79	94,7	65,0	-31,4	-1,2
General purpose machinery	2,58	95,0	63,7	-32,9	-0,8
Special purpose machinery	3,41	95,9	72,9	-24,0	-0,8
Household appliances	0,77	101,0	44,0	-56,4	-0,5
Electrical machinery	1,64	73,6	49,8	-32,3	-0,4
Radio, television and communication apparatus and professional equipment	1,54	88,1	60,1	-31,8	-0,4
Radio, television and communication apparatus	0,90	94,1	58,4	-37,9	-0,3
Professional equipment	0,64	79,7	62,4	-21,7	-0,1
Motor vehicles, parts and accessories and other transport equipment	7,56	93,9	34,9	-62,8	-4,6
Motor vehicles	2,82	89,5	26,9	-69,9	-1,8
Bodies for motor vehicles, trailers and semi-trailers	0,47	97,8	64,8	-33,7	-0,2
Parts and accessories	3,04	102,9	35,4	-65,6	-2,1
Other transport equipment	1,23	80,4	40,1	-50,1	-0,5
Furniture and other manufacturing	3,11	97,8	40,4	-58,7	-1,8
Furniture	1,07	84,1	23,9	-71,6	-0,7
Other manufacturing groups	2,04	105,1	49,0	-53,4	-1,2
Total	100	97,4	68,0	-30,2	-30,2

Figure 1 – Volume of manufacturing production (Base: 2015=100)**Figure 2 – Volume of manufacturing production (Base: 2015=100): year-on-year percentage change**

Sales: results for June 2020**Table C – Key growth rates in manufacturing sales at current prices**

	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
Year-on-year % change, unadjusted	-0,7	2,7	-5,1	-50,6	-30,1	-17,5
Month-on-month % change, seasonally adjusted	4,5	2,0	-5,4	-45,9	36,8	15,1
3-month % change, seasonally adjusted ¹	-3,6	-1,4	0,5	-15,1	-26,1	-31,0

¹ Percentage change between the previous 3 months and the 3 months ending in the month indicated.

Seasonally adjusted manufacturing sales increased by 15,1% in June 2020 compared with May 2020. This followed month-on-month changes of 36,8% in May 2020 and -45,9% in April 2020 – see Table C.

Table D – Seasonally adjusted manufacturing sales at current prices for the latest three months by division

Manufacturing division	Jan – Mar 2020 (R million)	Apr – Jun 2020 (R million)	% change between Jan – Mar 2020 and Apr – Jun 2020	Contribution (% points) to the total % change
Food and beverages	145 619	118 913	-18,3	-4,6
Textiles, clothing, leather and footwear	14 273	8 947	-37,3	-0,9
Wood and wood products, paper, publishing and printing	40 123	29 299	-27,0	-1,8
Petroleum, chemical products, rubber and plastic products	119 539	89 278	-25,3	-5,2
Glass and non-metallic mineral products	15 810	7 762	-50,9	-1,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	127 392	89 902	-29,4	-6,4
Electrical machinery	12 980	9 619	-25,9	-0,6
Radio, television and communication apparatus and professional equipment	6 141	4 228	-31,2	-0,3
Motor vehicles, parts and accessories and other transport equipment	81 027	37 046	-54,3	-7,5
Furniture and other manufacturing	22 755	8 966	-60,6	-2,4
Total	585 658	403 960	-31,0	-31,0

Risenga Maluleke
Statistician-General

Note: Impact of COVID-19 on manufacturing production and sales

Revisions to preliminary data

The global COVID-19 pandemic has had an extensive impact on the South African economy. Strict lockdown regulations came into force on 27 March 2020.

Lockdown measures placed many restrictions on social and economic activity across the world and severely affected the collection of data for official statistics. In most countries staff at national statistical offices had to adapt to new working conditions, including Statistics South Africa. In the case of enterprise surveys, many businesses were difficult or impossible to contact or were simply not able to supply their usual information.

With effect from April 2020, many statistical releases were delayed and/or published with relatively low collection rates and, therefore, relatively high degrees of imputation. Lower than normal collection rates typically result in higher than normal revisions. Collection rates are reported monthly in the Survey information section (see page 17 of this release).

Changes to the imputation method for manufacturing production and sales

Data are imputed for enterprises if they were unable to supply their data (non-respondents). For the manufacturing production and sales survey, historical imputation was used up to March 2020.

Historical imputation is used if data for a specific non-respondent are available in the previous year. The month-on-month growth rates for the enterprise's data are calculated for the same period in the previous year and applied to the data reported by the enterprise in the current year for the previous period. This method ensures that data are imputed based on a specific enterprise's historical pattern or seasonality.

If the data for a specific non-respondent in the previous year are not available, a variant of historical imputation is used. The month-on-month growth rates for the major manufacturing group under which the enterprise falls are calculated for the same period in the previous year and applied to the data reported by the enterprise in the previous period in the current year.

The historical imputation method has limitations when major economic shocks, natural disasters, labour strikes, global pandemics, etc. drastically alter current trends. In such cases historical patterns provide an inadequate basis for imputation and an alternative approach is required.

On account of the COVID-19 pandemic, data for April, May and June 2020 were imputed using a method similar to the nearest neighbour's trend method. The steps are outlined below:

- Enterprises were identified that supplied data (respondents) in both March 2020 and April 2020, in both April 2020 and May 2020 and in both May 2020 and June 2020.
- Aggregates were calculated for the respondents within the individual size groups (see technical note 3 on page 18) for each major manufacturing group.
- Month-on-month growth rates were calculated for the aggregates in the previous step.
- Data were imputed for a specific month by applying the month-on-month growth rates to the previous month's data for the non-respondents.

The imputation method used for the April, May and June 2020 estimates will be continued for as long as required by COVID-19 conditions and developments.

Tables

Table 1 – Index of the volume of manufacturing production (Base: 2015=100)

Month	2014	2015	2016	2017	2018	2019	2020 ¹
Jan	88,9	87,0	84,8	85,3	87,3	88,1	86,4
Feb	95,5	95,6	97,6	94,0	94,6	95,0	93,0
Mar	99,6	103,8	101,4	101,7	100,0	101,0	95,7
Apr	94,5	92,4	95,4	91,1	92,2	96,5	48,9
May	99,2	97,4	101,4	100,6	102,8	103,2	69,8
Jun	99,8	98,8	103,8	101,9	102,4	98,7	82,6
Jul	97,5	102,0	101,5	100,3	103,1	102,5	
Aug	101,4	101,2	103,5	105,2	106,9	105,3	
Sep	105,5	107,0	107,3	105,3	105,2	102,8	
Oct	113,2	110,9	107,8	110,1	113,6	113,2	
Nov	111,1	109,7	112,1	114,1	115,4	111,4	
Dec	93,9	94,1	92,0	93,7	93,7	87,8	
Total	100,0	100,0	100,7	100,3	101,4	100,5	

¹ The latest four months are preliminary.

Table 2 – Year-on-year percentage change in the volume of manufacturing production

Month	2015	2016	2017	2018	2019	2020	2020 year-to-date
Jan	-2,1	-2,5	0,6	2,3	0,9	-1,9	-1,9
Feb	0,1	2,1	-3,7	0,6	0,4	-2,1	-2,1
Mar	4,2	-2,3	0,3	-1,7	1,0	-5,2	-3,2
Apr	-2,2	3,2	-4,5	1,2	4,7	-49,3	-14,9
May	-1,8	4,1	-0,8	2,2	0,4	-32,4	-18,6
Jun	-1,0	5,1	-1,8	0,5	-3,6	-16,3	-18,2
Jul	4,6	-0,5	-1,2	2,8	-0,6		
Aug	-0,2	2,3	1,6	1,6	-1,5		
Sep	1,4	0,3	-1,9	-0,1	-2,3		
Oct	-2,0	-2,8	2,1	3,2	-0,4		
Nov	-1,3	2,2	1,8	1,1	-3,5		
Dec	0,2	-2,2	1,8	0,0	-6,3		
Total	0,0	0,7	-0,4	1,1	-0,9		

Table 3 – Seasonally adjusted volume of manufacturing production

Month	Index (Base: 2015=100)				Month-on-month % change			
	2017	2018	2019	2020	2017	2018	2019	2020
Jan	100,0	101,0	101,5	99,5	-0,1	-2,3	-2,1	3,0
Feb	98,7	99,5	100,0	96,9	-1,3	-1,5	-1,5	-2,6
Mar	99,1	100,5	101,4	95,8	0,4	1,0	1,4	-1,1
Apr	100,3	99,0	103,5	53,3	1,2	-1,5	2,1	-44,4
May	99,3	100,9	101,1	69,5	-1,0	1,9	-2,3	30,4
Jun	99,8	101,2	99,3	81,2	0,5	0,3	-1,8	16,8
Jul	100,4	102,0	100,2		0,6	0,8	0,9	
Aug	100,7	102,0	101,0		0,3	0,0	0,8	
Sep	100,0	101,7	98,9		-0,7	-0,3	-2,1	
Oct	100,6	102,6	101,8		0,6	0,9	2,9	
Nov	102,4	103,0	100,0		1,8	0,4	-1,8	
Dec	103,4	103,7	96,6		1,0	0,7	-3,4	

Table 4 – Index of the volume of manufacturing production by division and major group (Base: 2015=100)

Manufacturing division and major group	Weights	Jan-20	Feb-20	¹ Mar-20	¹ Apr-20	¹ May-20	¹ Jun-20
Food and beverages	26,64	95,6	98,5	102,2	81,7	88,6	96,8
Meat, fish, fruit, etc.	6,69	93,7	99,0	107,7	92,6	97,7	99,8
Dairy products	2,15	108,8	101,6	109,8	95,4	100,8	100,4
Grain mill products	3,37	91,2	92,9	101,2	97,3	95,2	100,7
Other food products	8,14	96,7	93,4	97,7	104,9	113,1	120,8
Beverages	6,29	94,2	106,6	100,0	27,1	39,5	59,1
Textiles, clothing, leather and footwear	3,12	59,9	76,5	75,9	20,4	50,7	68,6
Textiles	0,78	71,0	91,7	87,4	14,2	56,2	85,2
Other textile products	0,40	67,9	86,9	86,7	30,8	52,2	65,3
Knitted, crocheted articles	0,09	49,2	67,2	66,8	6,4	40,3	53,1
Wearing apparel	1,04	47,0	69,0	66,3	21,6	57,3	66,0
Leather and leather products	0,46	55,9	62,8	62,5	34,5	44,2	47,1
Footwear	0,35	73,0	73,3	86,4	4,0	28,6	75,3
Wood and wood products, paper, publishing and printing	11,45	78,3	85,4	90,0	43,4	61,9	72,0
Sawmilling and planing of wood	1,73	85,6	87,3	87,2	30,9	51,9	68,1
Products of wood	2,57	77,4	92,1	95,5	29,5	54,1	74,9
Paper and paper products	4,14	82,5	87,1	95,7	72,6	80,5	89,5
Publishing	1,43	61,0	65,1	63,6	31,2	52,0	48,7
Printing, recorded media	1,58	76,2	86,3	93,4	14,3	45,9	46,6
Petroleum, chemical products, rubber and plastic products	23,07	95,3	89,4	93,4	56,7	73,0	87,7
Coke, petroleum products and nuclear fuel	8,67	106,5	82,0	85,3	39,2	50,1	81,1
Basic chemicals	4,29	100,2	87,4	98,8	79,8	89,4	87,4
Other chemical products	6,19	83,4	91,3	96,5	69,2	93,4	97,3
Rubber products	1,24	80,1	116,7	95,6	18,4	59,4	74,0
Plastic products	2,68	86,1	99,4	103,0	64,7	79,9	94,1
Glass and non-metallic mineral products	3,18	72,7	81,0	78,6	15,6	45,6	72,1
Glass and glass products	0,66	107,5	103,8	91,1	42,8	68,3	85,3
Non-metallic mineral products	2,52	63,6	75,0	75,3	8,5	39,7	68,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	84,5	95,7	101,9	35,3	69,5	80,6
Basic iron and steel products	3,57	111,3	111,4	113,8	22,7	48,0	56,3
Non-ferrous metal products	2,58	90,0	91,6	96,0	77,9	87,9	95,5
Structural metal products	1,99	62,7	88,5	85,3	13,4	53,4	78,7
Other fabricated metal products	3,79	78,3	95,4	94,7	25,8	82,1	90,5
General purpose machinery	2,58	70,9	90,9	96,5	35,0	70,1	90,7
Special purpose machinery	3,41	76,8	90,1	115,9	41,2	78,8	82,4
Household appliances	0,77	107,3	97,7	99,8	28,5	44,2	57,6
Electrical machinery	1,64	60,3	72,6	79,5	25,8	58,3	66,9
Radio, television and communication apparatus and professional equipment	1,54	71,9	84,3	87,4	26,1	64,6	79,5
Radio, television and communication apparatus	0,90	76,0	92,7	87,1	18,3	64,6	80,2
Professional equipment	0,64	66,2	72,6	87,9	37,1	64,5	78,6
Motor vehicles, parts and accessories and other transport equipment	7,56	71,2	102,3	98,3	2,1	41,5	66,1
Motor vehicles	2,82	60,4	105,5	84,7	0,0	29,8	55,8
Bodies for motor vehicles, trailers and semi-trailers	0,47	77,7	91,5	97,2	11,8	69,3	119,7
Parts and accessories	3,04	82,7	111,6	114,3	0,6	45,6	66,7
Other transport equipment	1,23	65,0	76,3	90,2	6,9	47,5	67,6
Furniture and other manufacturing	3,11	82,6	106,3	84,0	13,0	38,8	50,1
Furniture	1,07	58,8	77,3	74,4	9,1	20,6	41,4
Other manufacturing groups	2,04	95,1	121,6	89,0	15,0	48,4	54,6
Total	100	86,4	93,0	95,7	48,9	69,8	82,6

¹ The latest four months are preliminary.

Table 5 – Year-on-year percentage change in the volume of manufacturing production by division and major group (Base: 2015=100)

Manufacturing division and major group	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
Food and beverages	1,3	2,7	-0,1	-19,3	-21,0	-11,4
Meat, fish, fruit, etc.	1,5	2,0	4,4	-9,4	-8,6	-1,6
Dairy products	-2,9	1,7	-4,0	-16,2	-14,4	-2,4
Grain mill products	1,2	3,9	4,5	3,6	-2,0	3,7
Other food products	9,9	3,7	4,9	3,7	-12,2	-11,8
Beverages	-7,1	2,1	-10,7	-73,0	-61,5	-34,8
Textiles, clothing, leather and footwear	-10,2	-9,6	-12,1	-76,3	-43,4	-16,9
Textiles	-8,7	-9,3	-6,8	-84,7	-46,2	-9,7
Other textile products	-2,9	-6,4	-2,9	-67,8	-47,1	-26,0
Knitted, crocheted articles	-30,0	-30,7	-26,6	-92,6	-55,8	-41,3
Wearing apparel	-14,4	-5,6	-19,1	-71,7	-29,2	-4,8
Leather and leather products	-21,5	-16,7	-16,7	-57,8	-43,2	-34,6
Footwear	9,3	-10,8	-7,3	-95,8	-67,1	-26,3
Wood and wood products, paper, publishing and printing	-6,5	-6,6	-4,4	-48,8	-33,4	-24,5
Sawmilling and planing of wood	-0,1	-6,1	-16,8	-68,9	-51,3	-29,6
Products of wood	-5,4	-5,1	-1,2	-68,0	-48,1	-26,4
Paper and paper products	-10,5	-7,9	-3,1	-14,4	-13,8	-10,9
Publishing	-4,5	-14,5	-11,5	-50,9	-21,2	-37,6
Printing, recorded media	-4,8	0,7	8,7	-81,1	-44,8	-45,8
Petroleum, chemical products, rubber and plastic products	-0,8	-1,2	-5,5	-40,6	-27,3	-2,2
Coke, petroleum products and nuclear fuel	-1,8	-6,8	-21,7	-63,9	-52,1	-3,1
Basic chemicals	7,3	-0,7	23,5	0,8	-5,2	-0,6
Other chemical products	-3,2	1,1	2,7	-20,5	-1,2	6,1
Rubber products	-6,6	13,7	-8,4	-78,6	-48,0	-25,3
Plastic products	-2,0	1,5	-1,9	-37,2	-22,7	-8,7
Glass and non-metallic mineral products	1,3	-9,7	-13,5	-82,5	-55,9	-22,3
Glass and glass products	12,9	-1,4	-19,9	-58,4	-38,5	-16,9
Non-metallic mineral products	-3,2	-12,4	-11,3	-90,1	-60,8	-23,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	-0,8	-5,1	-8,4	-66,0	-33,6	-19,6
Basic iron and steel products	7,4	-5,5	-7,0	-81,8	-59,4	-45,8
Non-ferrous metal products	-12,8	-7,9	-11,6	-27,7	-20,8	-7,5
Structural metal products	-3,2	4,2	-0,9	-84,4	-40,5	-12,8
Other fabricated metal products	-4,7	-8,2	-15,6	-76,4	-23,8	-9,2
General purpose machinery	7,6	-0,3	-4,0	-64,8	-30,6	-11,3
Special purpose machinery	-3,8	-6,0	-9,5	-54,5	-17,2	-18,2
Household appliances	12,8	-6,9	12,6	-67,8	-56,1	-37,3
Electrical machinery	-5,0	-11,6	-17,4	-66,6	-31,8	-20,5
Radio, television and communication apparatus and professional equipment	-0,7	-4,7	-11,2	-68,1	-24,4	-4,7
Radio, television and communication apparatus	-3,8	-5,0	-12,6	-78,9	-31,5	-2,3
Professional equipment	4,9	-4,1	-9,1	-50,6	-11,9	-7,6
Motor vehicles, parts and accessories and other transport equipment	-11,6	-3,1	-7,8	-97,9	-62,0	-38,8
Motor vehicles	-23,7	-5,6	-22,5	-100,0	-72,3	-49,7
Bodies for motor vehicles, trailers and semi-trailers	-2,4	-14,1	-12,9	-90,1	-43,6	1,9
Parts and accessories	-5,9	-0,8	3,1	-99,5	-63,3	-41,1
Other transport equipment	-0,5	2,6	2,4	-89,7	-31,7	-20,2
Furniture and other manufacturing	-3,8	6,6	-2,4	-84,4	-58,2	-46,0
Furniture	-0,7	-9,5	-5,1	-88,6	-78,3	-49,9
Other manufacturing groups	-4,8	13,4	-1,2	-82,5	-47,2	-44,3
Total	-1,9	-2,1	-5,2	-49,3	-32,4	-16,3

Table 6 – Contribution of each division and major group to the year-on-year percentage change in the volume of manufacturing production (percentage points)

Manufacturing division and major group	Weights	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
Food and beverages	26,64	0,4	0,7	0,0	-5,4	-6,1	-3,4
Meat, fish, fruit, etc.	6,69	0,1	0,1	0,3	-0,7	-0,6	-0,1
Dairy products	2,15	-0,1	0,0	-0,1	-0,4	-0,4	-0,1
Grain mill products	3,37	0,0	0,1	0,1	0,1	-0,1	0,1
Other food products	8,14	0,8	0,3	0,4	0,3	-1,2	-1,3
Beverages	6,29	-0,5	0,1	-0,7	-4,8	-3,8	-2,0
Textiles, clothing, leather and footwear	3,12	-0,2	-0,3	-0,3	-2,1	-1,2	-0,4
Textiles	0,78	-0,1	-0,1	0,0	-0,6	-0,4	-0,1
Other textile products	0,40	0,0	0,0	0,0	-0,3	-0,2	-0,1
Knitted, crocheted articles	0,09	0,0	0,0	0,0	-0,1	0,0	0,0
Wearing apparel	1,04	-0,1	0,0	-0,2	-0,6	-0,2	0,0
Leather and leather products	0,46	-0,1	-0,1	-0,1	-0,2	-0,1	-0,1
Footwear	0,35	0,0	0,0	0,0	-0,3	-0,2	-0,1
Wood and wood products, paper, publishing and printing	11,45	-0,7	-0,7	-0,5	-4,9	-3,5	-2,7
Sawmilling and planing of wood	1,73	0,0	-0,1	-0,3	-1,2	-0,9	-0,5
Products of wood	2,57	-0,1	-0,1	0,0	-1,7	-1,2	-0,7
Paper and paper products	4,14	-0,5	-0,3	-0,1	-0,5	-0,5	-0,5
Publishing	1,43	0,0	-0,2	-0,1	-0,5	-0,2	-0,4
Printing, recorded media	1,58	-0,1	0,0	0,1	-1,0	-0,6	-0,6
Petroleum, chemical products, rubber and plastic products	23,07	-0,2	-0,3	-1,2	-9,3	-6,1	-0,5
Coke, petroleum products and nuclear fuel	8,67	-0,2	-0,5	-2,0	-6,2	-4,6	-0,2
Basic chemicals	4,29	0,3	0,0	0,8	0,0	-0,2	0,0
Other chemical products	6,19	-0,2	0,1	0,2	-1,1	-0,1	0,4
Rubber products	1,24	-0,1	0,2	-0,1	-0,9	-0,7	-0,3
Plastic products	2,68	-0,1	0,0	-0,1	-1,1	-0,6	-0,2
Glass and non-metallic mineral products	3,18	0,0	-0,3	-0,4	-2,4	-1,8	-0,7
Glass and glass products	0,66	0,1	0,0	-0,1	-0,4	-0,3	-0,1
Non-metallic mineral products	2,52	-0,1	-0,3	-0,2	-2,0	-1,5	-0,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	-0,1	-1,0	-1,7	-13,3	-6,4	-3,7
Basic iron and steel products	3,57	0,3	-0,2	-0,3	-3,8	-2,4	-1,7
Non-ferrous metal products	2,58	-0,4	-0,2	-0,3	-0,8	-0,6	-0,2
Structural metal products	1,99	0,0	0,1	0,0	-1,5	-0,7	-0,2
Other fabricated metal products	3,79	-0,2	-0,3	-0,7	-3,3	-0,9	-0,4
General purpose machinery	2,58	0,1	0,0	-0,1	-1,7	-0,8	-0,3
Special purpose machinery	3,41	-0,1	-0,2	-0,4	-1,7	-0,5	-0,6
Household appliances	0,77	0,1	-0,1	0,1	-0,5	-0,4	-0,3
Electrical machinery	1,64	-0,1	-0,2	-0,3	-0,9	-0,4	-0,3
Radio, television and communication apparatus and professional equipment	1,54	0,0	-0,1	-0,2	-0,9	-0,3	-0,1
Radio, television and communication apparatus	0,90	0,0	0,0	-0,1	-0,6	-0,3	0,0
Professional equipment	0,64	0,0	0,0	-0,1	-0,3	-0,1	0,0
Motor vehicles, parts and accessories and other transport equipment	7,56	-0,8	-0,3	-0,6	-7,8	-5,0	-3,2
Motor vehicles	2,82	-0,6	-0,2	-0,7	-3,0	-2,1	-1,6
Bodies for motor vehicles, trailers and semi-trailers	0,47	0,0	-0,1	-0,1	-0,5	-0,2	0,0
Parts and accessories	3,04	-0,2	0,0	0,1	-3,5	-2,3	-1,4
Other transport equipment	1,23	0,0	0,0	0,0	-0,8	-0,3	-0,2
Furniture and other manufacturing	3,11	-0,1	0,2	-0,1	-2,3	-1,6	-1,3
Furniture	1,07	0,0	-0,1	0,0	-0,8	-0,8	-0,4
Other manufacturing groups	2,04	-0,1	0,3	0,0	-1,5	-0,9	-0,9
Total	100	-1,9	-2,1	-5,2	-49,3	-32,4	-16,3

Table 7 – Seasonally adjusted index of the volume of manufacturing production by division and major group (Base: 2015=100)

Manufacturing division and major group	Weights	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Month-on-month % change
Food and beverages	26,64	108,6	108,2	84,6	89,2	95,9	7,5
Meat, fish, fruit, etc.	6,69	106,0	106,2	95,5	97,8	99,8	2,0
Dairy products	2,15	105,6	108,0	99,4	108,8	109,7	0,8
Grain mill products	3,37	99,8	98,5	102,8	97,9	97,8	-0,1
Other food products	8,14	117,2	118,4	106,6	107,9	111,7	3,5
Beverages	6,29	105,9	102,4	29,9	44,6	65,5	46,9
Textiles, clothing, leather and footwear	3,12	80,2	75,6	23,1	51,4	69,3	34,8
Textiles	0,78	90,1	82,4	14,7	54,7	82,3	50,5
Other textile products	0,40	88,7	86,1	33,0	48,9	64,9	32,7
Knitted, crocheted articles	0,09	62,9	63,1	6,3	37,6	49,8	32,4
Wearing apparel	1,04	75,4	67,1	29,5	61,4	71,5	16,4
Leather and leather products	0,46	64,2	63,1	31,2	41,9	46,8	11,7
Footwear	0,35	88,6	93,3	4,5	32,9	73,8	124,3
Wood and wood products, paper, publishing and printing	11,45	89,5	88,9	50,2	64,0	70,7	10,5
Sawmilling and planing of wood	1,73	88,4	80,6	34,6	47,1	66,2	40,6
Products of wood	2,57	96,5	96,0	31,5	55,2	71,3	29,2
Paper and paper products	4,14	91,4	93,5	85,1	83,8	87,5	4,4
Publishing	1,43	69,1	67,0	37,2	58,9	49,8	-15,4
Printing, recorded media	1,58	92,5	94,4	18,0	49,4	49,6	0,4
Petroleum, chemical products, rubber and plastic products	23,07	92,3	94,5	62,2	72,9	87,2	19,6
Coke, petroleum products and nuclear fuel	8,67	82,0	85,3	39,2	50,1	81,1	61,9
Basic chemicals	4,29	96,2	105,7	90,6	87,4	87,4	0,0
Other chemical products	6,19	97,5	96,1	77,6	95,1	96,1	1,1
Rubber products	1,24	106,6	90,3	27,9	47,7	71,6	50,1
Plastic products	2,68	101,2	104,6	71,7	83,5	93,4	11,9
Glass and non-metallic mineral products	3,18	87,2	82,3	19,1	42,3	65,7	55,3
Glass and glass products	0,66	112,7	100,0	47,5	70,3	87,1	23,9
Non-metallic mineral products	2,52	80,5	77,7	11,7	35,0	60,1	71,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	96,9	94,3	37,1	67,7	78,9	16,5
Basic iron and steel products	3,57	109,0	104,7	18,2	38,2	60,4	58,1
Non-ferrous metal products	2,58	93,4	93,9	76,7	85,5	94,2	10,2
Structural metal products	1,99	87,8	85,3	14,9	53,0	70,7	33,4
Other fabricated metal products	3,79	96,2	91,0	27,2	80,5	87,2	8,3
General purpose machinery	2,58	95,2	94,3	36,8	69,6	84,7	21,7
Special purpose machinery	3,41	94,3	93,1	52,8	83,5	82,4	-1,3
Household appliances	0,77	96,9	93,2	30,2	42,4	59,4	40,1
Electrical machinery	1,64	73,9	70,0	30,7	56,3	62,3	10,7
Radio, television and communication apparatus and professional equipment	1,54	87,6	84,9	30,1	68,5	81,6	19,1
Radio, television and communication apparatus	0,90	95,4	89,7	21,1	68,7	85,3	24,2
Professional equipment	0,64	76,7	78,1	42,6	68,2	76,5	12,2
Motor vehicles, parts and accessories and other transport equipment	7,56	97,8	92,8	8,0	36,1	60,5	67,6
Motor vehicles	2,82	98,0	82,2	10,5	21,3	49,0	130,0
Bodies for motor vehicles, trailers and semi-trailers	0,47	96,3	95,4	12,8	67,1	114,6	70,8
Parts and accessories	3,04	105,0	108,0	4,8	38,9	62,6	60,9
Other transport equipment	1,23	80,1	78,4	8,4	51,0	61,0	19,6
Furniture and other manufacturing	3,11	100,4	94,9	27,2	42,1	51,8	23,0
Furniture	1,07	80,6	82,1	10,0	20,1	41,7	107,5
Other manufacturing groups	2,04	110,9	101,7	36,3	53,7	57,0	6,1
Total	100	96,9	95,8	53,3	69,5	81,2	16,8

Table 8 – Manufacturing sales at current prices (R million)

Month	2014	2015	2016	2017	2018	2019	2020 ¹
Jan	134 022	133 473	137 588	147 728	154 687	169 331	168 088
Feb	151 015	148 453	160 923	163 040	173 909	184 231	189 141
Mar	156 523	167 441	169 906	182 917	185 238	201 129	190 797
Apr	148 251	147 271	160 631	158 360	165 218	189 590	93 615
May	153 108	158 343	173 256	179 649	191 930	199 608	139 461
Jun	161 108	163 277	177 291	183 043	191 836	199 200	164 301
Jul	150 687	163 881	170 938	174 766	193 760	202 907	
Aug	161 424	161 763	177 283	186 082	201 305	211 321	
Sep	168 001	172 491	184 513	188 393	204 075	204 710	
Oct	181 283	178 929	183 891	197 103	220 644	222 511	
Nov	176 286	179 830	195 991	213 656	225 502	220 858	
Dec	152 737	155 988	163 327	173 384	182 375	176 429	
Total	1 894 445	1 931 140	2 055 538	2 148 121	2 290 479	2 381 825	

¹ The latest four months are preliminary.

Table 9 – Year-on-year percentage change in manufacturing sales at current prices

Month	2015	2016	2017	2018	2019	2020	2020 year-to-date
Jan	-0,4	3,1	7,4	4,7	9,5	-0,7	-0,7
Feb	-1,7	8,4	1,3	6,7	5,9	2,7	1,0
Mar	7,0	1,5	7,7	1,3	8,6	-5,1	-1,2
Apr	-0,7	9,1	-1,4	4,3	14,8	-50,6	-13,8
May	3,4	9,4	3,7	6,8	4,0	-30,1	-17,2
Jun	1,3	8,6	3,2	4,8	3,8	-17,5	-17,3
Jul	8,8	4,3	2,2	10,9	4,7		
Aug	0,2	9,6	5,0	8,2	5,0		
Sep	2,7	7,0	2,1	8,3	0,3		
Oct	-1,3	2,8	7,2	11,9	0,8		
Nov	2,0	9,0	9,0	5,5	-2,1		
Dec	2,1	4,7	6,2	5,2	-3,3		
Total	1,9	6,4	4,5	6,6	4,0		

Table 10 – Seasonally adjusted manufacturing sales at current prices

Month	R million				Month-on-month % change			
	2017	2018	2019	2020	2017	2018	2019	2020
Jan	175 282	182 279	198 311	196 261	1,2	-2,6	0,2	4,5
Feb	172 894	184 278	194 670	200 130	-1,4	1,1	-1,8	2,0
Mar	176 474	186 178	199 992	189 267	2,1	1,0	2,7	-5,4
Apr	176 376	177 190	204 794	102 488	-0,1	-4,8	2,4	-45,9
May	177 965	189 760	197 105	140 167	0,9	7,1	-3,8	36,8
Jun	178 139	188 835	200 453	161 305	0,1	-0,5	1,7	15,1
Jul	177 395	193 449	200 353		-0,4	2,4	0,0	
Aug	179 137	192 656	203 629		1,0	-0,4	1,6	
Sep	179 004	198 616	197 499		-0,1	3,1	-3,0	
Oct	178 725	198 607	199 802		-0,2	0,0	1,2	
Nov	189 271	197 975	195 376		5,9	-0,3	-2,2	
Dec	187 098	197 845	187 803		-1,1	-0,1	-3,9	

Table 11 – Manufacturing sales at current prices by division and major group (R million)

Manufacturing division and major group	Jan-20	Feb-20	¹ Mar-20	¹ Apr-20	¹ May-20	¹ Jun-20
Food and beverages	41 882	45 485	47 127	35 558	37 815	41 723
Meat, fish, fruit, etc.	11 434	12 028	13 698	11 457	12 481	13 248
Dairy products	4 111	3 924	4 371	3 700	3 963	3 945
Grain mill products	6 474	6 605	7 480	6 892	7 121	7 386
Other food products	9 006	10 172	9 736	10 112	9 361	9 646
Beverages	10 857	12 756	11 843	3 397	4 889	7 498
Textiles, clothing, leather and footwear	3 545	4 501	4 709	1 581	3 158	4 096
Textiles	517	660	613	133	404	599
Other textile products	1 131	1 485	1 505	567	968	1 186
Knitted, crocheted articles	135	191	186	15	111	154
Wearing apparel	957	1 297	1 483	570	1 136	1 291
Leather and leather products	433	470	483	266	377	426
Footwear	372	398	439	29	163	440
Wood and wood products, paper, publishing and printing	11 292	12 824	13 425	7 007	9 675	11 286
Sawmilling and planing of wood	814	834	776	333	497	790
Products of wood	1 514	1 774	1 808	638	1 021	1 522
Paper and paper products	5 599	6 335	6 834	5 014	5 855	6 671
Publishing	1 113	1 256	1 187	599	913	907
Printing, recorded media	2 253	2 625	2 819	423	1 389	1 396
Petroleum, chemical products, rubber and plastic products	38 170	36 572	36 645	22 823	29 810	34 362
Coke, petroleum products and nuclear fuel	14 062	10 529	8 320	3 597	5 128	7 801
Basic chemicals	7 839	7 746	8 754	6 365	7 667	7 771
Other chemical products	10 296	11 205	12 379	9 080	11 650	12 170
Rubber products	1 228	1 638	1 447	286	1 035	1 249
Plastic products	4 745	5 455	5 745	3 494	4 329	5 371
Glass and non-metallic mineral products	4 277	4 988	4 919	632	2 919	4 457
Glass and glass products	973	965	859	263	614	739
Non-metallic mineral products	3 304	4 024	4 060	369	2 305	3 718
Basic iron and steel, non-ferrous metal products, metal products and machinery	35 750	43 319	44 482	17 662	34 253	38 308
Basic iron and steel products	8 146	9 263	9 425	3 281	7 332	8 434
Non-ferrous metal products	12 191	14 896	14 469	8 427	12 127	12 578
Structural metal products	2 216	3 234	3 074	630	1 891	2 743
Other fabricated metal products	4 864	5 861	6 094	1 655	4 918	5 643
General purpose machinery	2 956	3 724	4 083	1 380	3 112	3 554
Special purpose machinery	4 138	5 135	5 988	1 949	4 286	4 547
Household appliances	1 239	1 205	1 348	341	587	810
Electrical machinery	3 505	4 464	4 563	1 867	3 601	4 136
Radio, television and communication apparatus and professional equipment	1 551	1 946	2 105	630	1 529	1 909
Radio, television and communication apparatus	757	1 017	1 054	202	766	912
Professional equipment	795	928	1 051	428	763	997
Motor vehicles, parts and accessories and other transport equipment	22 401	27 429	25 578	4 544	13 087	19 937
Motor vehicles	13 511	15 937	14 223	3 424	6 992	11 054
Bodies for motor vehicles, trailers and semi-trailers	816	1 048	1 117	103	593	1 071
Parts and accessories	5 923	7 911	7 240	789	3 942	5 579
Other transport equipment	2 151	2 534	2 997	228	1 560	2 232
Furniture and other manufacturing	5 715	7 613	7 245	1 310	3 615	4 088
Furniture	894	1 271	1 205	137	343	671
Other manufacturing groups	4 821	6 342	6 040	1 172	3 273	3 417
Total	168 088	189 141	190 797	93 615	139 461	164 301

¹ The latest four months are preliminary.

Table 12 – Year-on-year percentage change in manufacturing sales at current prices by division and major group

Manufacturing division and major group	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
Food and beverages	-2,4	10,5	3,3	-21,0	-16,8	-4,9
Meat, fish, fruit, etc.	5,1	4,1	7,0	-8,1	-2,6	4,8
Dairy products	1,7	4,8	0,4	-11,7	-5,6	0,1
Grain mill products	7,7	15,7	13,5	8,5	6,5	13,9
Other food products	-12,1	27,2	15,2	3,1	-1,3	2,2
Beverages	-7,4	4,9	-11,8	-72,1	-60,1	-34,0
Textiles, clothing, leather and footwear	-6,4	-4,2	-8,4	-67,7	-39,5	-16,2
Textiles	-7,2	-3,2	-10,5	-79,0	-45,0	-9,8
Other textile products	-1,8	-1,3	-3,4	-62,7	-41,7	-22,3
Knitted, crocheted articles	-26,6	-19,1	-24,7	-93,8	-54,5	-33,9
Wearing apparel	-5,3	-3,2	-5,7	-62,1	-25,4	-7,0
Leather and leather products	-12,9	-4,5	-14,8	-48,8	-34,1	-20,5
Footwear	-4,1	-10,0	-14,1	-93,9	-66,1	-18,4
Wood and wood products, paper, publishing and printing	-5,2	-1,1	-2,3	-41,0	-27,4	-19,6
Sawmilling and planing of wood	-2,2	4,0	-16,8	-66,2	-48,5	-11,5
Products of wood	3,6	-3,4	-5,2	-64,6	-47,8	-26,7
Paper and paper products	-9,6	-1,4	-3,0	-12,5	-13,1	-7,2
Publishing	-2,7	-7,9	-6,9	-48,6	-20,7	-33,5
Printing, recorded media	-1,2	3,7	9,0	-80,7	-44,7	-44,5
Petroleum, chemical products, rubber and plastic products	4,5	1,9	-6,9	-41,7	-27,1	-15,5
Coke, petroleum products and nuclear fuel	9,4	3,0	-33,0	-73,7	-60,5	-43,4
Basic chemicals	1,6	-1,5	7,8	-18,6	-16,1	-9,3
Other chemical products	2,6	3,9	7,0	-14,1	1,3	8,4
Rubber products	11,8	13,1	-5,7	-78,9	-37,3	-15,3
Plastic products	-2,0	-2,1	0,3	-39,4	-23,0	-4,2
Glass and non-metallic mineral products	1,4	-2,2	-8,7	-87,9	-52,3	-20,9
Glass and glass products	6,6	2,1	-14,2	-72,5	-40,7	-21,6
Non-metallic mineral products	0,0	-3,2	-7,5	-91,4	-54,6	-20,7
Basic iron and steel, non-ferrous metal products, metal products and machinery	-3,8	2,7	-9,4	-59,7	-26,0	-19,4
Basic iron and steel products	-17,3	-11,2	-25,0	-69,0	-37,6	-31,9
Non-ferrous metal products	-3,7	19,2	-4,0	-39,9	-15,6	-16,1
Structural metal products	1,2	8,0	-3,8	-79,7	-41,7	-17,1
Other fabricated metal products	-2,5	-6,9	-9,5	-75,0	-25,4	-9,3
General purpose machinery	16,6	5,3	0,4	-63,6	-22,5	-15,5
Special purpose machinery	4,4	-2,8	-4,0	-57,8	-16,4	-13,1
Household appliances	28,3	7,6	6,7	-69,0	-50,3	-32,0
Electrical machinery	-1,8	-6,9	-16,5	-57,5	-24,0	-11,8
Radio, television and communication apparatus and professional equipment	4,0	-8,0	-4,4	-66,0	-24,4	-0,4
Radio, television and communication apparatus	0,7	-15,8	-6,7	-77,5	-30,7	1,7
Professional equipment	7,6	2,1	-2,0	-55,2	-16,8	-2,2
Motor vehicles, parts and accessories and other transport equipment	0,9	-3,2	-9,6	-82,9	-53,9	-31,1
Motor vehicles	2,8	-3,5	-7,3	-78,4	-59,0	-35,9
Bodies for motor vehicles, trailers and semi-trailers	-12,3	-9,3	-13,2	-92,2	-54,2	-17,2
Parts and accessories	-2,2	-4,8	-18,0	-88,9	-49,2	-26,6
Other transport equipment	4,0	7,3	5,9	-89,6	-31,4	-19,9
Furniture and other manufacturing	2,9	8,8	6,8	-80,9	-49,9	-42,1
Furniture	0,2	-4,4	-5,2	-89,3	-76,1	-50,4
Other manufacturing groups	3,4	11,9	9,6	-79,1	-43,4	-40,1
Total	-0,7	2,7	-5,1	-50,6	-30,1	-17,5

Table 13 – Contribution of each division and major group to the year-on-year percentage change in manufacturing sales at current prices (percentage points)

Manufacturing division and major group	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20
Food and beverages	-0,6	2,3	0,7	-5,0	-3,8	-1,1
Meat, fish, fruit, etc.	0,3	0,3	0,4	-0,5	-0,2	0,3
Dairy products	0,0	0,1	0,0	-0,3	-0,1	0,0
Grain mill products	0,3	0,5	0,4	0,3	0,2	0,5
Other food products	-0,7	1,2	0,6	0,2	-0,1	0,1
Beverages	-0,5	0,3	-0,8	-4,6	-3,7	-1,9
Textiles, clothing, leather and footwear	-0,1	-0,1	-0,2	-1,7	-1,0	-0,4
Textiles	0,0	0,0	0,0	-0,3	-0,2	0,0
Other textile products	0,0	0,0	0,0	-0,5	-0,3	-0,2
Knitted, crocheted articles	0,0	0,0	0,0	-0,1	-0,1	0,0
Wearing apparel	0,0	0,0	0,0	-0,5	-0,2	0,0
Leather and leather products	0,0	0,0	0,0	-0,1	-0,1	-0,1
Footwear	0,0	0,0	0,0	-0,2	-0,2	0,0
Wood and wood products, paper, publishing and printing	-0,4	-0,1	-0,2	-2,6	-1,8	-1,4
Sawmilling and planing of wood	0,0	0,0	-0,1	-0,3	-0,2	-0,1
Products of wood	0,0	0,0	0,0	-0,6	-0,5	-0,3
Paper and paper products	-0,4	0,0	-0,1	-0,4	-0,4	-0,3
Publishing	0,0	-0,1	0,0	-0,3	-0,1	-0,2
Printing, recorded media	0,0	0,1	0,1	-0,9	-0,6	-0,6
Petroleum, chemical products, rubber and plastic products	1,0	0,4	-1,4	-8,6	-5,6	-3,2
Coke, petroleum products and nuclear fuel	0,7	0,2	-2,0	-5,3	-3,9	-3,0
Basic chemicals	0,1	-0,1	0,3	-0,8	-0,7	-0,4
Other chemical products	0,2	0,2	0,4	-0,8	0,1	0,5
Rubber products	0,1	0,1	0,0	-0,6	-0,3	-0,1
Plastic products	-0,1	-0,1	0,0	-1,2	-0,6	-0,1
Glass and non-metallic mineral products	0,0	-0,1	-0,2	-2,4	-1,6	-0,6
Glass and glass products	0,0	0,0	-0,1	-0,4	-0,2	-0,1
Non-metallic mineral products	0,0	-0,1	-0,2	-2,1	-1,4	-0,5
Basic iron and steel, non-ferrous metal products, metal products and machinery	-0,8	0,6	-2,3	-13,8	-6,0	-4,6
Basic iron and steel products	-1,0	-0,6	-1,6	-3,8	-2,2	-2,0
Non-ferrous metal products	-0,3	1,3	-0,3	-2,9	-1,1	-1,2
Structural metal products	0,0	0,1	-0,1	-1,3	-0,7	-0,3
Other fabricated metal products	-0,1	-0,2	-0,3	-2,6	-0,8	-0,3
General purpose machinery	0,2	0,1	0,0	-1,3	-0,5	-0,3
Special purpose machinery	0,1	-0,1	-0,1	-1,4	-0,4	-0,3
Household appliances	0,2	0,0	0,0	-0,4	-0,3	-0,2
Electrical machinery	0,0	-0,2	-0,4	-1,3	-0,6	-0,3
Radio, television and communication apparatus and professional equipment	0,0	-0,1	0,0	-0,6	-0,2	0,0
Radio, television and communication apparatus	0,0	-0,1	0,0	-0,4	-0,2	0,0
Professional equipment	0,0	0,0	0,0	-0,3	-0,1	0,0
Motor vehicles, parts and accessories and other transport equipment	0,1	-0,5	-1,4	-11,6	-7,7	-4,5
Motor vehicles	0,2	-0,3	-0,6	-6,6	-5,0	-3,1
Bodies for motor vehicles, trailers and semi-trailers	-0,1	-0,1	-0,1	-0,6	-0,4	-0,1
Parts and accessories	-0,1	-0,2	-0,8	-3,3	-1,9	-1,0
Other transport equipment	0,0	0,1	0,1	-1,0	-0,4	-0,3
Furniture and other manufacturing	0,1	0,3	0,2	-2,9	-1,8	-1,5
Furniture	0,0	0,0	0,0	-0,6	-0,5	-0,3
Other manufacturing groups	0,1	0,4	0,3	-2,3	-1,3	-1,1
Total	-0,7	2,7	-5,1	-50,6	-30,1	-17,5

Table 14 – Seasonally adjusted manufacturing sales at current prices by division and major group (R million)

Manufacturing division and major group	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Month-on-month % change
Food and beverages	50 204	47 744	36 635	39 383	42 895	8,9
Meat, fish, fruit, etc.	13 444	13 534	12 070	12 860	13 170	2,4
Dairy products	4 147	4 206	3 818	4 061	4 168	2,6
Grain mill products	7 450	7 168	7 329	7 251	7 249	0,0
Other food products	11 321	10 677	9 756	9 622	9 844	2,3
Beverages	13 842	12 158	3 662	5 588	8 464	51,5
Textiles, clothing, leather and footwear	4 753	4 722	1 677	3 123	4 147	32,8
Textiles	631	585	150	382	580	51,8
Other textile products	1 542	1 541	592	914	1 178	28,9
Knitted, crocheted articles	191	175	14	101	147	45,5
Wearing apparel	1 425	1 478	607	1 173	1 390	18,5
Leather and leather products	480	469	279	367	407	10,9
Footwear	484	474	35	186	444	138,7
Wood and wood products, paper, publishing and printing	13 542	13 234	8 361	10 037	10 901	8,6
Sawmilling and planing of wood	882	732	409	468	764	63,2
Products of wood	1 888	1 817	690	1 028	1 374	33,7
Paper and paper products	6 628	6 584	5 974	5 996	6 412	6,9
Publishing	1 335	1 312	726	1 055	928	-12,0
Printing, recorded media	2 811	2 789	562	1 490	1 422	-4,6
Petroleum, chemical products, rubber and plastic products	40 601	37 472	25 078	30 133	34 067	13,1
Coke, petroleum products and nuclear fuel	12 404	9 279	3 942	5 144	7 626	48,3
Basic chemicals	8 694	8 857	6 849	7 611	7 759	1,9
Other chemical products	12 139	12 081	10 142	11 770	12 099	2,8
Rubber products	1 587	1 336	317	1 004	1 217	21,2
Plastic products	5 777	5 919	3 829	4 603	5 366	16,6
Glass and non-metallic mineral products	5 294	4 860	797	2 810	4 155	47,9
Glass and glass products	1 109	950	317	626	761	21,6
Non-metallic mineral products	4 185	3 910	480	2 184	3 395	55,4
Basic iron and steel, non-ferrous metal products, metal products and machinery	43 459	41 977	19 401	33 669	36 832	9,4
Basic iron and steel products	9 399	8 739	3 404	6 869	7 765	13,0
Non-ferrous metal products	14 467	14 329	9 309	11 939	12 618	5,7
Structural metal products	3 150	3 047	705	1 905	2 528	32,7
Other fabricated metal products	6 073	5 875	1 775	4 826	5 472	13,4
General purpose machinery	3 860	3 834	1 638	2 969	3 286	10,7
Special purpose machinery	5 280	4 928	2 204	4 582	4 378	-4,5
Household appliances	1 230	1 225	367	579	784	35,4
Electrical machinery	4 413	4 067	2 087	3 640	3 892	6,9
Radio, television and communication apparatus and professional equipment	2 028	2 025	690	1 589	1 949	22,7
Radio, television and communication apparatus	1 059	1 054	243	801	988	23,3
Professional equipment	969	971	447	788	961	22,0
Motor vehicles, parts and accessories and other transport equipment	28 039	25 629	6 395	12 175	18 476	51,8
Motor vehicles	16 512	15 354	5 157	6 001	10 164	69,4
Bodies for motor vehicles, trailers and semi-trailers	1 137	1 092	103	593	992	67,3
Parts and accessories	7 690	6 619	865	3 858	5 378	39,4
Other transport equipment	2 701	2 564	269	1 723	1 941	12,7
Furniture and other manufacturing	7 796	7 538	1 366	3 609	3 991	10,6
Furniture	1 355	1 327	152	343	671	95,6
Other manufacturing groups	6 441	6 210	1 213	3 266	3 320	1,7
Total	200 130	189 267	102 488	140 167	161 305	15,1

Survey information

Introduction	1	Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry, covering manufacturing enterprises. This statistical release contains the results of a sample drawn from the business sampling frame (BSF), with enhanced coverage of South African businesses (see 4). The release contains monthly indices of the volume of manufacturing production and monthly value of sales of manufactured products by division and major group.
	2	In accordance with international practice, the indices are usually re-based every five years to a new base year. The current base period of the index is 2015. Both estimated and seasonally adjusted figures are presented.
	3	In order to improve timeliness, some information for the latest month had to be estimated due to late response. These estimates will be revised in future statistical releases as soon as information becomes available.
	4	Stats SA is continuously updating its BSF, based on units registered for value added tax (VAT) and income tax (IT) obtained from the South African Revenue Service (SARS).
Purpose of the survey	5	The results of the monthly manufacturing production and sales survey are used to calculate the volume of manufacturing production indices in order to estimate the gross domestic product (GDP) and its components, which in turn are used to develop and monitor government policy. These indices provide an indicator of the real level of manufacturing activity in the economy.
Special Data Dissemination Standard of the IMF	6	The data in this statistical release adhere to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data, access by the public, integrity, and quality of the disseminated data.
Scope of the survey	7	This survey covers manufacturing enterprises, i.e. those conducting activities in - - the manufacturing, processing, making or packing of products; - the slaughtering of animals, including poultry; and - installation, assembly, completion, repair and related work.
Classification	8	The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities</i> (SIC), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities</i> (ISIC) with suitable adaptations for local conditions. Each enterprise is classified to an industry which reflects its predominant activity. Statistics in this publication are presented at SIC division (two digit) and major group (three digit) level.
Collection rate	9	The preliminary collection rates for the survey on manufacturing production and sales were 74,5% for June 2020 and 77,2% for May 2020. The improved collection rates were 78,3% for April 2020, 77,8% for March 2020 and 80,0% for February 2020.
Statistical unit	10	The statistical unit for which information is compiled and published is an enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.
Revised figures	11	Revised figures are mainly due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures, as indicated in the relevant tables, are subject to change and when revised will not be indicated as such.
Related publications	12	Users may also wish to refer to <i>Stats in Brief</i> available from Stats SA.

- Rounding-off of figures** 13 Where necessary, the figures in the tables have been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.
- Historical data** 14 Historical manufacturing data are available on the Stats SA webpage. Click on the following link ([Time series data](#)) to access the data electronically.
- Past publications** 15 Past manufacturing releases are available on the Stats SA webpage. Click on the following link ([Past publications](#)) to access the releases electronically.

Technical notes

- Survey methodology and design** 1 The survey is conducted monthly. Questionnaires are sent to a sample of 3 081 enterprises from a population of 49 776 manufacturing enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Fax and telephone reminders are used to follow up on non-respondents.
- 2 A stratified random sample was drawn at the Standard Industrial Classification (SIC) three-digit level in April 2019 from Stats SA's business sampling frame (BSF). Strata were formed using a combination of the SIC and the measure of size classes for enterprises (see point 3 below).

The Neyman optimal allocation formula used to allocate samples to each stratum is given by a formula below:

$$n_h = \frac{N_h S_h}{\sum N_h S_h}$$

N_h and S_h are the stratum population size and the stratum variance respectively.

- Class limits** 3 Each manufacturing major group is divided into four size groups. All large enterprises (size group one) are completely enumerated. Simple random sampling is applied to medium (size group two) and to small (size group three and four) enterprises. The total value of sales of manufactured products of large enterprises (size group one) in a major group is added to the weighted totals of size group two, three and four of that major group to reflect the total value of sales of the major group.

Measure of size classes (Rand)

Enterprise size	Size group	Lower limits	Upper limits
Very small	4	1 961 626	15 000 000
Small	3	15 000 001	39 000 000
Medium	2	39 000 001	153 000 000
Large	1	153 000 001	

- Sample weighting** 4 For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form major group and division estimates. These procedures are consistent with international best practice.
- Index of the volume of manufacturing production** 5 The index of the volume of manufacturing production, also known as a production index, is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The current base period is 2015. The production in the base period is set at 100.

Calculation of production index

- 6** The calculation of the monthly production indices is based on the value of sales of products and articles manufactured and change in monthly value of stocks of manufactured products, after the effect of price changes has been eliminated through deflation using appropriate indices of the production price index (PPI). For 38 of the 44 major groups in manufacturing, the value of production is calculated from the value of sales and stocks of manufactured products obtained from the monthly survey of manufacturing enterprises.
- 7** More direct indicators are used for the value of production of the following major groups:
- tobacco;
 - coke and refined petroleum products;
 - basic iron and steel products;
 - basic precious and non-ferrous metal products;
 - motor vehicles; and
 - parts and accessories for motor vehicles.

The volume indices for these major groups are calculated on the basis of quantities. This method is used by the national statistical agencies of many other countries for petroleum products as the results are considered more satisfactory (mainly because these commodities are relatively homogeneous).

Index weighting

- 8** For indices, a weight is calculated for every major group according to the value added of the major group (i.e. output of a major group minus intermediate consumption) relative to the total value added of the manufacturing industry as a whole, based on the results of the most recent census of manufacturing, large sample survey (LSS) of the manufacturing industry or national accounts (NA) value added data. The production indices of all divisions are multiplied by the applicable weights and aggregated to produce the index for the total volume of manufacturing production. Weights between census/LSS/NA years are fixed. The table below reflects the period and the census/LSS/NA which were used as base year for the given period.

Period	Source
1998 to 2000	1996 Census of manufacturing
2001 to 2004	2001 LSS
2005 to 2009	2005 LSS
2010 to 2020	National accounts

- 9** The weights reflect the importance of the major group/division to the total manufacturing industry. The weights change over time due to changes in the relative performance of industries, due to factors such as quality changes, changes in relative prices, and changes in customer preferences. New weights are calculated and implemented annually.

Table E – Weights by division and major group

Manufacturing division and major group	Weights used for manufacturing indices by period		
	2015 (based on value added for 2013 – 2015)	2016 (based on value added for 2014 – 2016)	2017 – 2020 (based on value added for 2015 – 2017)
Food and beverages	25,15	25,78	26,64
Meat, fish, fruit, etc.	6,39	6,59	6,69
Dairy products	1,89	2,00	2,15
Grain mill products	2,86	3,12	3,37
Other food products	7,62	7,74	8,14
Beverages	6,39	6,33	6,29
Textiles, clothing, leather and footwear	3,28	3,21	3,12
Textiles	0,83	0,80	0,78
Other textile products	0,41	0,41	0,40
Knitted, crocheted articles	0,09	0,09	0,09
Wearing apparel	1,10	1,08	1,04
Leather and leather products	0,49	0,48	0,46
Footwear	0,36	0,35	0,35
Wood and wood products, paper, publishing and printing	11,62	11,28	11,45
Sawmilling and planing of wood	1,71	1,69	1,73
Products of wood	2,37	2,42	2,57
Paper and paper products	4,33	4,09	4,14
Publishing	1,49	1,45	1,43
Printing, recorded media	1,72	1,63	1,58
Petroleum, chemical products, rubber and plastic products	24,01	23,82	23,07
Coke, petroleum products and nuclear fuel	9,29	9,18	8,67
Basic chemicals	4,36	4,41	4,29
Other chemical products	6,16	6,15	6,19
Rubber products	1,34	1,30	1,24
Plastic products	2,86	2,78	2,68
Glass and non-metallic mineral products	3,90	3,53	3,18
Glass and glass products	0,74	0,69	0,66
Non-metallic mineral products	3,16	2,84	2,52
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	18,74	18,69
Basic iron and steel products	3,44	3,52	3,57
Non-ferrous metal products (including precious metals)	2,73	2,60	2,58
Structural metal products	1,86	1,92	1,99
Other fabricated metal products	3,86	3,84	3,79
General purpose machinery	2,51	2,57	2,58
Special purpose machinery	3,51	3,50	3,41
Household appliances	0,81	0,79	0,77
Electrical machinery	1,65	1,63	1,64
Radio, television and communication apparatus and professional equipment	1,61	1,59	1,54
Radio, television and communication apparatus	0,93	0,92	0,90
Professional equipment	0,68	0,67	0,64
Motor vehicles, parts and accessories and other transport equipment	6,86	7,20	7,56
Motor vehicles	2,43	2,60	2,82
Bodies for motor vehicles, trailers and semi-trailers	0,46	0,48	0,47
Parts and accessories	2,76	2,89	3,04
Other transport equipment	1,21	1,23	1,23
Furniture and other manufacturing	3,20	3,22	3,11
Furniture	1,09	1,08	1,07
Other manufacturing groups	2,11	2,14	2,04
Total	100	100	100

Seasonal adjustment	10	Seasonally adjusted estimates of all major groups are generated each month, using the X-12 Seasonal Adjustment Program developed by the US Bureau of the Census, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences, which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. Therefore the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour. The X-12-ARIMA procedure for manufacturing production and sales is described in more detail on the Stats SA website: Click to Download Seasonal adjustment Manufacturing June 2017 Note: Owing to the impact of the COVID-19 lockdown, additive outlier and transitory change adjustments were applied to April 2020. Transitory (temporary) change describes a temporary effect on the level of a series after a certain point in time. The methodology will be reviewed as more data points are added to the time series.
Trend cycle	11	The trend is the long-term pattern or movement of a time series. The X-12 Seasonal Adjustment Programme is used for smoothing seasonally adjusted estimates to estimates of the underlying trend.
Reliability of estimates	12	Data presented in this publication are based on information obtained from a sample and are, therefore, subject to sampling variability; that is, they may differ from the figures that would have been produced if the data had been obtained from all enterprises in the manufacturing industry in South Africa. Estimates are subject to sampling and non-sampling errors.
	13	Inaccuracies may occur because of imperfections in reporting by enterprises and errors made in the collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling errors. Every effort is made to minimise non-sampling errors by careful design of questionnaires, testing them in pilot studies, editing reported data and implementing efficient operating procedures. Fluctuations may occur in consecutive months as a result of seasonal and economic factors.
Month-on-month percentage change	14	The month-on-month percentage change in a variable for any given month is the change between that month and the previous month, expressed as a percentage of the latter.
Year-on-year (annual) percentage change	15	The year-on-year percentage change in a variable for any given period is the change between that period and the corresponding period of the previous year, expressed as a percentage of the latter.
Index contribution (percentage points)	16	The contribution (percentage points) of a major group or division to the total manufacturing production percentage change for a given period is calculated by multiplying the difference in the index of each major group or division by the weight of the major group or division and then dividing by the previous period total manufacturing index.
Sales contribution (percentage points)	17	The contribution (percentage points) of a division or major group to the percentage change in total manufacturing sales for a given period is calculated by multiplying the percentage change of each major group or division with its percentage contribution to the total sales of the previous period, divided by 100.

Glossary

Enterprise	The enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.	
Industry	An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the <i>System of National Accounts</i> (SNA) in the same way as in the <i>Standard Industrial Classification of all Economic Activities</i> (SIC), Fifth Edition, Report No. 09-90-02 of January 1993.	
Sales	Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.	
Symbols and abbreviations	BSF	Business sampling frame
	GDP	Gross domestic product
	IMF	International Monetary Fund
	ISIC	International Standard Industrial Classification
	LSS	Large sample survey
	NA	National accounts
	PPI	Producer price index
	Rm	R million
	SIC	Standard Industrial Classification of all Economic Activities
	SARS	South African Revenue Service
	SDDS	Special Data Dissemination Standard
	Stats SA	Statistics South Africa
	VAT	Value added tax
	*	Revised figures

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