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STATISTICAL RELEASE

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Manufacturing: Utilisation of production capacity by large enterprises (Preliminary)

May 2020

The disruptions resulting from the COVID-19 lockdown have affected Statistics South Africa's operations.
Please see the note on page 4 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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Key results for May 2020

Table A – Utilisation and under-utilisation of production capacity in the manufacturing industry

Estimates		May 2019 (%)	February 2020 (%) 1/	May 2020 (%) 1/	% point difference between May 2019 and May 2020
Utilisation of production capacity		81,3	77,6	60,9	-20,4
Under-utilisation of production capacity		18,7	22,4	39,1	20,4
Reasons for under-utilisation:	Shortage of raw materials	2,2	2,8	3,3	1,1
	Shortage of labour	1,2	1,3	1,7	0,5
	Insufficient demand	11,7	12,9	18,7	7,0
	Other reasons	3,6	5,4	15,4	11,8

1/ Preliminary.

The utilisation of production capacity by large manufacturers was 60,9% in May 2020 compared with 81,3% in May 2019, a decrease of 20,4 percentage points.

Under-utilisation of production capacity increased by 20,4 percentage points between May 2019 and May 2020. ‘Other reasons’ (such as downtime due to the COVID-19 lockdown, maintenance and changes in productivity) rose by 11,8 percentage points and insufficient demand increased by 7,0 percentage points – see Table A.

Figure 1 – Utilisation of production capacity in the manufacturing industry

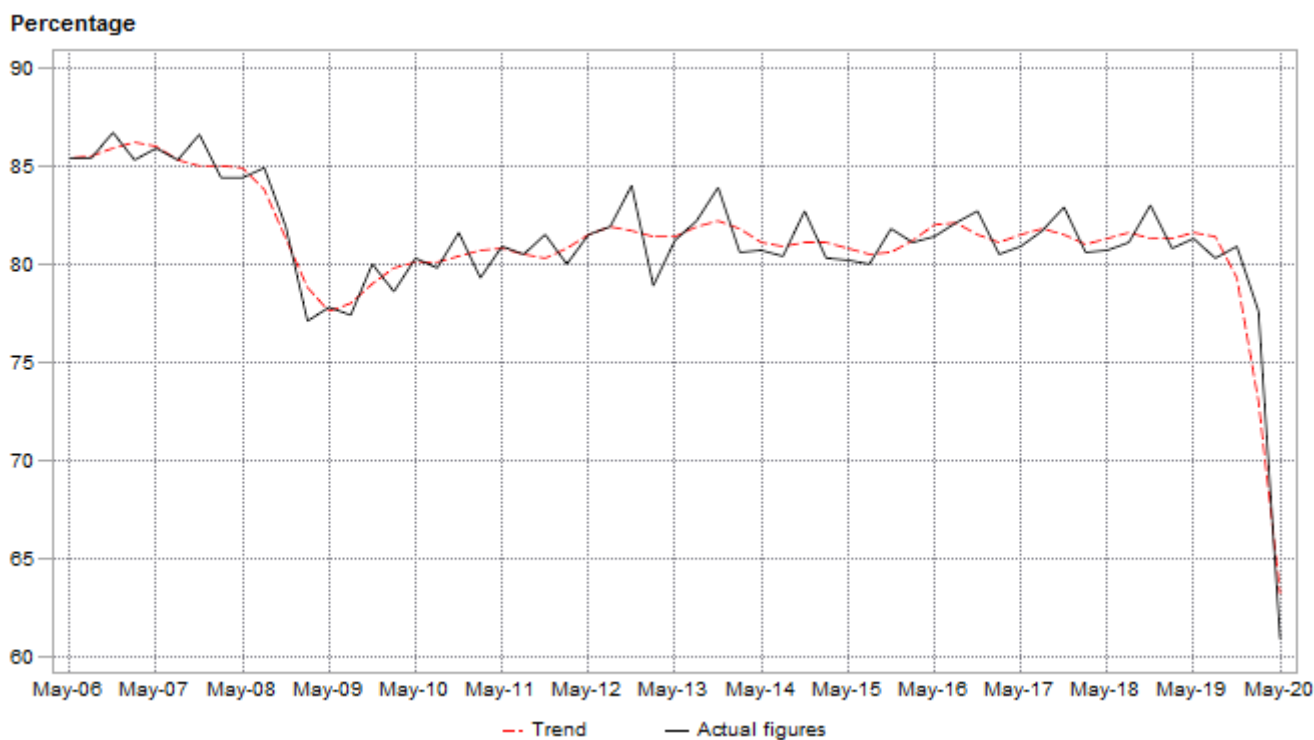


Table B – Utilisation of production capacity in the manufacturing industry by division

Manufacturing divisions	Weights	May 2019 (%) 2/	May 2020 (%) 1/ 2/	% point difference between May 2019 and May 2020
Food and beverages	26,64	81,6	68,6	-13,0
Textiles, clothing, leather and footwear	3,12	71,1	46,2	-24,9
Wood and wood products, paper, publishing and printing	11,45	81,8	60,9	-20,9
Petroleum, chemical products, rubber and plastic products	23,07	84,4	66,9	-17,5
Glass and non-metallic mineral products	3,19	78,6	43,7	-34,9
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	77,9	55,6	-22,3
Electrical machinery	1,64	79,8	55,1	-24,7
Radio, television and communication apparatus and professional equipment	1,54	81,7	72,0	-9,7
Motor vehicles, parts and accessories and other transport equipment	7,57	83,9	49,3	-34,6
Furniture and other manufacturing	3,11	82,3	39,2	-43,1
Total manufacturing	100	81,3	60,9	-20,4

1/ Preliminary.

2/ The weighted total of utilisation is the sum of the rate of utilisation per division multiplied by its weight, divided by 100. There might be a slight discrepancy with the total shown in Table B due to rounding off.

All of the manufacturing divisions showed decreases in utilisation of production capacity in May 2020 compared with May 2019. The largest decreases were recorded in the following divisions:

- furniture and 'other' manufacturing (-43,1 percentage points);
- glass and non-metallic mineral products (-34,9 percentage points);
- motor vehicles, parts and accessories and other transport equipment (-34,6 percentage points);
- textiles, clothing, leather and footwear (-24,9 percentage points);
- electrical machinery (-24,7 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (-22,3 percentage points); and
- wood and wood products, paper, publishing and printing (-20,9 percentage points).

The following divisions recorded rates of utilisation of production capacity above 60% in May 2020:

- radio, television and communication apparatus and professional equipment (72,0%);
- food and beverages (68,6%);
- petroleum, chemical products, rubber and plastic products (66,9%); and
- wood and wood products, paper, publishing and printing (60,9%) – see Table B.

Risenga Maluleke
Statistician-General

Note: Impact of COVID-19 on utilisation of production capacity

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 18 of this release).

Changes to the imputation method for utilisation of production capacity

Data are imputed for enterprises if they were unable to supply their data (non-respondents). For the utilisation of production capacity survey, historical imputation was used up to February 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 the May 2020 utilisation of production capacity survey 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 February 2020 and May 2020.
- Aggregates were calculated for the respondents within the individual size groups for each major manufacturing group.
- Month-on-month growth rates between February 2020 and May 2020 were calculated for the aggregates in the previous step.
- May 2020 data were imputed by applying the month-on-month growth rates to the February 2020 data for the non-respondents.

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

Tables

Table 1 – Utilisation and reasons for under-utilisation by division and major group

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
						Skilled	Semi- and unskilled			
Division: Food and beverages	Weight = 26,64	2018	Feb	81,4	18,6	2,5	1,3	0,3	10,8	3,7
			May	81,1	18,9	2,6	1,2	0,4	10,5	4,2
			Aug	80,8	19,2	2,6	1,2	0,4	10,9	4,1
			Nov	84,2	15,8	1,8	0,9	0,3	8,9	3,9
			Year	81,9	18,1	2,4	1,2	0,4	10,3	4,0
		2019	Feb	81,4	18,6	1,9	1,0	0,3	10,9	4,5
			May	81,6	18,4	2,4	1,2	0,2	10,9	3,7
			Aug	82,1	17,9	2,5	1,2	0,2	10,4	3,6
			Nov	84,3	15,7	2,1	1,2	0,2	8,9	3,3
			Year	82,4	17,7	2,2	1,2	0,2	10,3	3,8
		2020	Feb	74,3	25,7	2,3	1,3	0,2	11,8	10,1
			May	68,6	31,4	2,6	1,8	0,2	16,4	10,4

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
						Skilled	Semi- and unskilled			
Food and food products	Weight = 20,35	2018	Feb	80,7	19,3	1,9	1,4	0,3	11,5	4,1
			May	80,2	19,8	2,2	1,3	0,5	11,3	4,6
			Aug	80,7	19,3	1,9	1,3	0,4	11,5	4,2
			Nov	83,0	17,0	1,6	0,9	0,3	10,0	4,2
			Year	81,2	18,9	1,9	1,2	0,4	11,1	4,3
		2019	Feb	80,5	19,5	1,5	1,2	0,3	11,4	5,2
			May	81,1	18,9	2,2	1,4	0,3	11,0	4,1
			Aug	81,4	18,6	2,0	1,3	0,3	11,0	4,2
			Nov	82,7	17,3	2,3	1,2	0,2	9,9	3,7
			Year	81,4	18,6	2,0	1,3	0,3	10,8	4,3
		2020	Feb	73,1	26,9	2,0	1,2	0,2	10,8	12,7
			May	78,2	21,8	1,7	1,2	0,2	13,3	5,4

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Beverages	Weight = 6,29	2018	Feb	83,4	16,6	4,4	0,9	0,3	8,5	2,5
			May	83,8	16,2	3,7	0,9	0,3	8,3	3,0
			Aug	81,4	18,6	4,6	0,7	0,3	9,3	3,7
			Nov	88,5	11,5	2,5	0,7	0,2	5,5	2,7
			Year	84,3	15,7	3,8	0,8	0,3	7,9	3,0
		2019	Feb	84,2	15,8	3,0	0,7	0,2	9,6	2,2
			May	83,1	16,9	3,0	0,7	0,2	10,8	2,2
			Aug	84,3	15,7	4,1	1,1	0,2	8,6	1,7
			Nov	89,3	10,7	1,8	1,2	0,2	5,7	1,9
			Year	85,2	14,8	3,0	0,9	0,2	8,7	2,0
		2020	Feb	78,2	21,8	3,1	1,6	0,2	15,2	1,7
			May	37,5	62,5	5,5	3,8	0,5	26,2	26,6

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Division: Textiles, clothing, leather and footwear	Weight = 3,12	2018	Feb	72,7	27,3	1,8	0,9	0,4	21,3	2,9
			May	72,4	27,6	1,8	1,0	0,3	21,8	2,7
			Aug	72,5	27,5	1,7	0,9	0,3	21,9	2,7
			Nov	73,1	26,9	1,3	0,8	0,3	21,8	2,7
			Year	72,7	27,3	1,7	0,9	0,3	21,7	2,8
		2019	Feb	72,1	27,9	1,2	0,9	0,3	22,6	2,9
			May	71,1	28,9	1,7	1,0	0,3	22,9	3,0
			Aug	70,8	29,2	1,5	0,9	0,3	23,4	3,1
			Nov	71,3	28,7	1,4	0,9	0,3	22,8	3,3
			Year	71,3	28,7	1,5	0,9	0,3	22,9	3,1
		2020	Feb	71,4	28,6	1,2	0,9	0,5	22,4	3,6
			May	46,2	53,8	1,8	1,3	0,5	34,8	15,4

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Textiles	Weight = 1,18	2018	Feb	65,2	34,8	1,6	0,6	0,1	28,9	3,5
			May	65,8	34,2	1,8	0,6	0,0	28,5	3,4
			Aug	66,2	33,8	1,9	0,8	0,0	27,6	3,5
			Nov	68,2	31,8	1,2	0,5	0,0	27,2	2,9
			Year	66,4	33,7	1,6	0,6	0,0	28,1	3,3
		2019	Feb	67,4	32,6	1,1	0,8	0,0	27,9	2,9
			May	65,8	34,2	1,6	0,5	0,0	28,9	3,1
			Aug	65,9	34,1	1,7	0,6	0,0	28,8	2,9
			Nov	66,4	33,6	1,7	0,6	0,0	28,5	2,8
			Year	66,4	33,6	1,5	0,6	0,0	28,5	2,9
		2020	Feb	65,8	34,2	1,6	0,9	0,5	27,3	4,0
			May	55,5	44,5	2,9	0,4	0,0	29,1	12,2

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Wearing apparel	Weight = 1,13	2018	Feb	75,9	24,1	0,6	1,5	0,4	18,1	3,6
			May	75,2	24,8	0,5	1,6	0,4	18,9	3,5
			Aug	75,0	25,0	0,6	1,3	0,4	19,2	3,5
			Nov	75,4	24,6	0,6	1,3	0,4	18,9	3,5
			Year	75,4	24,6	0,6	1,4	0,4	18,8	3,5
		2019	Feb	76,0	24,0	0,5	1,4	0,4	18,3	3,5
			May	75,5	24,5	0,6	1,6	0,4	18,4	3,5
			Aug	75,2	24,8	0,6	1,3	0,4	19,0	3,5
			Nov	75,6	24,4	0,6	1,3	0,4	18,7	3,5
			Year	75,6	24,4	0,6	1,4	0,4	18,6	3,5
		2020	Feb	75,6	24,4	0,4	1,2	0,4	18,9	3,5
			May	33,1	66,9	0,6	2,2	0,6	42,0	21,5

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Leather and leather products	Weight = 0,46	2018	Feb	74,2	25,8	5,2	0,6	1,2	17,3	1,6
			May	72,9	27,1	5,4	0,6	1,2	18,6	1,3
			Aug	69,7	30,3	4,8	0,6	1,2	22,8	1,0
			Nov	68,1	31,9	3,9	0,6	1,2	23,9	2,4
			Year	71,2	28,8	4,8	0,6	1,2	20,7	1,6
		2019	Feb	61,1	38,9	3,4	0,6	1,2	29,8	4,1
			May	63,4	36,6	3,7	0,6	1,2	27,4	3,8
			Aug	61,6	38,4	3,7	0,6	1,2	29,2	3,8
			Nov	61,3	38,7	2,7	0,6	1,2	29,4	4,8
			Year	61,9	38,2	3,4	0,6	1,2	29,0	4,1
		2020	Feb	60,8	39,2	2,9	0,6	1,2	29,8	4,8
			May	32,4	67,6	2,7	0,9	1,8	44,0	18,1

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Footwear	Weight = 0,35	2018	Feb	86,0	14,0	1,9	0,7	0,0	11,4	0,0
			May	85,3	14,7	1,5	0,7	0,0	12,5	0,0
			Aug	88,3	11,7	0,9	0,3	0,0	10,5	0,0
			Nov	88,6	11,4	0,8	0,3	0,0	10,3	0,0
			Year	87,1	13,0	1,3	0,5	0,0	11,2	0,0
		2019	Feb	88,7	11,3	1,1	0,5	0,0	9,7	0,0
			May	84,3	15,7	3,5	0,7	0,0	11,4	0,0
			Aug	86,1	13,9	0,7	0,7	0,0	11,4	1,1
			Nov	87,7	12,3	1,1	1,5	0,0	7,6	2,2
			Year	86,7	13,3	1,6	0,9	0,0	10,0	0,8
		2020	Feb	90,2	9,8	0,4	0,7	0,0	7,6	1,1
			May	75,5	24,5	1,1	2,1	0,0	18,2	3,1

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
							Skilled	Semi-and unskilled		
Division: Wood, paper, publishing and printing	Weight = 11,45	2018	Feb	82,4	17,6	1,1	1,1	0,2	11,2	4,0
			May	82,6	17,4	1,2	1,1	0,2	10,8	4,1
			Aug	82,6	17,4	1,2	1,1	0,1	10,8	4,2
			Nov	82,4	17,6	1,3	1,2	0,1	10,1	4,9
			Year	82,5	17,5	1,2	1,1	0,2	10,7	4,3
	2019	Feb	82,3	17,7	1,2	1,0	0,1	11,1	4,3	
		May	81,8	18,2	1,1	1,0	0,1	11,5	4,5	
		Aug	81,7	18,3	1,5	1,1	0,1	11,8	3,8	
		Nov	82,3	17,7	1,1	1,1	0,1	11,7	3,7	
		Year	82,0	18,0	1,2	1,1	0,1	11,5	4,1	
	2020	Feb	80,7	19,3	1,0	1,1	0,1	13,2	3,9	
		May	60,9	39,1	1,9	1,4	0,5	21,6	13,7	

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
							Skilled	Semi-and unskilled		
Wood and products of wood	Weight = 4,30	2018	Feb	84,0	16,0	1,5	0,8	0,0	9,3	4,4
			May	83,8	16,2	1,6	0,8	0,1	8,7	5,0
			Aug	82,8	17,2	1,6	0,9	0,0	9,1	5,7
			Nov	80,3	19,7	1,6	0,8	0,0	9,3	7,9
			Year	82,7	17,3	1,6	0,8	0,0	9,1	5,8
	2019	Feb	83,3	16,7	1,7	0,7	0,0	9,4	4,9	
		May	82,9	17,1	1,9	0,7	0,0	9,3	5,3	
		Aug	82,4	17,6	2,7	0,8	0,0	10,5	3,6	
		Nov	81,9	18,1	1,8	0,9	0,0	11,2	4,1	
		Year	82,6	17,4	2,0	0,8	0,0	10,1	4,5	
	2020	Feb	82,0	18,0	1,9	1,1	0,0	11,2	3,8	
		May	63,7	36,3	2,6	0,9	0,0	17,5	15,4	

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
							Skilled	Semi-and unskilled		
Paper and paper products	Weight = 4,14	2018	Feb	85,4	14,6	0,9	1,3	0,0	6,9	5,5
			May	87,0	13,0	0,8	1,2	0,0	5,9	5,1
			Aug	86,2	13,8	0,6	1,4	0,0	7,1	4,8
			Nov	87,2	12,8	1,3	1,5	0,0	5,3	4,7
			Year	86,5	13,6	0,9	1,4	0,0	6,3	5,0
	2019	Feb	85,5	14,5	0,8	1,1	0,0	7,5	5,1	
		May	86,1	13,9	0,3	1,4	0,0	7,2	4,9	
		Aug	85,6	14,4	0,6	1,3	0,0	7,1	5,4	
		Nov	85,9	14,1	0,6	1,4	0,0	7,0	5,1	
		Year	85,8	14,2	0,6	1,3	0,0	7,2	5,1	
	2020	Feb	82,0	18,0	0,3	1,3	0,0	10,9	5,5	
		May	74,1	25,9	0,4	0,9	0,1	10,8	13,8	

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Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Publishing, printing and recording media	Weight = 3,01	2018	Feb	75,9	24,1	1,0	1,3	0,7	20,0	1,2
			May	74,5	25,5	1,4	1,4	0,5	20,7	1,5
			Aug	76,9	23,1	1,4	1,2	0,5	18,6	1,4
			Nov	78,8	21,2	0,8	1,1	0,5	17,7	1,1
			Year	76,5	23,5	1,2	1,3	0,6	19,3	1,3
	2019	Feb	76,7	23,3	1,2	1,1	0,5	18,5	2,1	
		May	74,3	25,7	1,0	0,8	0,5	20,7	2,7	
		Aug	75,4	24,6	1,1	1,2	0,5	20,0	1,8	
		Nov	77,7	22,3	0,8	1,0	0,5	18,8	1,2	
		Year	76,0	24,0	1,0	1,0	0,5	19,5	2,0	
	2020	Feb	76,5	23,5	0,8	1,0	0,5	19,4	1,9	
		May	39,0	61,0	3,0	2,7	1,9	42,3	11,1	

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Division: Petroleum, chemical products, rubber and plastic products	Weight = 23,07	2018	Feb	82,1	17,9	1,6	0,5	0,1	6,4	9,3
			May	82,6	17,4	2,0	0,5	0,1	6,8	8,0
			Aug	83,9	16,1	1,9	0,5	0,1	7,0	6,6
			Nov	87,1	12,9	1,3	0,6	0,1	6,3	4,6
			Year	83,9	16,1	1,7	0,5	0,1	6,6	7,1
	2019	Feb	84,4	15,6	2,1	0,6	0,1	7,0	5,8	
		May	84,4	15,6	2,6	0,5	0,1	7,0	5,4	
		Aug	83,2	16,8	3,7	0,5	0,1	7,3	5,2	
		Nov	83,0	17,0	4,2	0,6	0,1	7,0	5,1	
		Year	83,8	16,3	3,2	0,6	0,1	7,1	5,4	
	2020	Feb	82,9	17,1	4,1	0,7	0,1	7,5	4,7	
		May	66,9	33,1	3,7	0,3	0,2	15,5	13,4	

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Coke, petroleum products and nuclear fuel	Weight = 8,67	2018	Feb	77,1	22,9	1,9	0,0	0,0	1,6	19,4
			May	79,2	20,8	2,4	0,0	0,0	2,4	16,0
			Aug	83,4	16,6	1,8	0,0	0,0	2,9	12,0
			Nov	87,1	12,9	1,6	0,0	0,0	2,9	8,5
			Year	81,7	18,3	1,9	0,0	0,0	2,5	14,0
	2019	Feb	83,7	16,3	2,7	0,0	0,0	1,5	12,0	
		May	84,4	15,6	4,8	0,0	0,0	1,5	9,4	
		Aug	82,4	17,6	7,0	0,0	0,0	1,5	9,1	
		Nov	81,3	18,7	7,9	0,0	0,0	1,5	9,3	
		Year	83,0	17,1	5,6	0,0	0,0	1,5	10,0	
	2020	Feb	82,6	17,4	7,0	0,0	0,0	2,3	8,2	
		May	62,0	38,0	5,1	0,0	0,0	14,0	18,9	

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Basic chemicals	Weight = 4,29	2018	Feb	85,1	14,9	1,0	0,3	0,0	7,3	6,3
			May	85,1	14,9	1,8	0,3	0,0	6,6	6,2
			Aug	83,0	17,0	2,6	0,2	0,1	7,7	6,5
			Nov	89,4	10,6	0,9	0,4	0,0	6,3	3,0
			Year	85,7	14,4	1,6	0,3	0,0	7,0	5,5
	2019	Feb	84,8	15,2	1,9	0,4	0,0	8,9	4,0	
		May	83,4	16,6	1,6	0,4	0,0	8,7	5,9	
		Aug	83,1	16,9	2,0	0,3	0,0	9,5	5,1	
		Nov	85,2	14,8	1,6	0,3	0,0	9,2	3,7	
		Year	84,1	15,9	1,8	0,4	0,0	9,1	4,7	
	2020	Feb	82,4	17,6	2,8	0,7	0,0	9,0	5,2	
		May	57,5	42,5	3,6	0,3	0,0	25,8	12,9	

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Other chemical products	Weight = 6,19	2018	Feb	86,5	13,5	2,2	0,8	0,1	8,5	1,9
			May	84,4	15,6	2,6	0,8	0,2	9,8	2,2
			Aug	84,7	15,3	2,3	0,8	0,2	9,9	2,2
			Nov	87,0	13,0	1,6	0,9	0,1	8,6	1,8
			Year	85,7	14,4	2,2	0,8	0,2	9,2	2,0
	2019	Feb	85,9	14,1	2,2	0,9	0,1	9,7	1,2	
		May	85,3	14,7	1,7	0,7	0,4	9,9	2,0	
		Aug	84,0	16,0	2,1	0,5	0,4	10,9	2,2	
		Nov	84,2	15,8	2,3	0,5	0,4	10,2	2,4	
		Year	84,9	15,2	2,1	0,7	0,3	10,2	2,0	
	2020	Feb	84,0	16,0	2,5	0,5	0,4	10,8	1,8	
		May	79,1	20,9	3,6	0,6	0,6	10,6	5,6	

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Rubber products	Weight = 1,24	2018	Feb	81,4	18,6	0,4	1,7	0,0	13,7	2,8
			May	84,1	15,9	0,4	2,4	0,0	10,5	2,6
			Aug	85,5	14,5	0,4	2,4	0,0	9,0	2,7
			Nov	85,2	14,8	0,3	3,7	0,0	9,4	1,4
			Year	84,1	16,0	0,4	2,6	0,0	10,7	2,4
	2019	Feb	84,8	15,2	0,4	3,7	0,0	9,7	1,4	
		May	84,9	15,1	0,5	3,7	0,0	9,6	1,4	
		Aug	83,6	16,4	0,5	3,7	0,0	10,3	1,9	
		Nov	80,7	19,3	3,4	5,5	0,0	9,1	1,4	
		Year	83,5	16,5	1,2	4,2	0,0	9,7	1,5	
	2020	Feb	81,9	18,1	3,5	5,7	0,2	7,9	0,8	
		May	50,9	49,1	0,7	0,0	0,0	15,2	33,2	

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Plastic products	Weight = 2,68	2018	Feb	83,4	16,6	1,0	1,4	0,2	12,5	1,6
			May	84,2	15,8	0,6	1,1	0,2	12,5	1,4
			Aug	84,3	15,7	0,9	1,1	0,2	12,0	1,6
			Nov	84,9	15,1	0,9	0,7	0,2	11,0	2,3
			Year	84,2	15,8	0,9	1,1	0,2	12,0	1,7
		2019	Feb	82,7	17,3	0,9	0,8	0,2	14,2	1,3
			May	82,7	17,3	0,9	0,6	0,2	14,0	1,6
			Aug	83,1	16,9	1,1	1,0	0,4	13,0	1,4
			Nov	83,3	16,7	1,0	0,9	0,3	13,1	1,5
			Year	83,0	17,1	1,0	0,8	0,3	13,6	1,5
		2020	Feb	82,6	17,4	1,2	0,7	0,2	13,8	1,4
			May	76,6	23,4	1,0	1,2	0,3	15,7	5,2

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Division: Glass and non-metallic mineral products	Weight = 3,18	2018	Feb	80,4	19,6	0,2	0,2	0,0	15,0	4,2
			May	80,5	19,5	0,3	0,1	0,0	14,3	4,8
			Aug	82,2	17,8	1,0	0,1	0,0	13,2	3,5
			Nov	82,8	17,2	0,0	0,0	0,0	14,0	3,2
			Year	81,5	18,5	0,4	0,1	0,0	14,1	3,9
		2019	Feb	78,1	21,9	0,7	0,3	0,0	15,8	5,1
			May	78,6	21,4	0,2	0,3	0,0	16,2	4,7
			Aug	76,2	23,8	1,9	0,0	0,0	16,9	5,0
			Nov	78,9	21,1	1,7	0,0	0,0	13,8	5,6
			Year	78,0	22,1	1,1	0,2	0,0	15,7	5,1
		2020	Feb	74,2	25,8	0,3	0,0	0,0	22,2	3,3
			May	43,7	56,3	3,8	4,1	0,1	20,5	27,8

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Glass and glass products	Weight = 0,66	2018	Feb	82,3	17,7	0,0	0,0	0,0	16,6	1,1
			May	84,9	15,1	0,0	0,0	0,0	14,0	1,1
			Aug	87,2	12,8	0,0	0,0	0,0	11,7	1,1
			Nov	88,6	11,4	0,0	0,0	0,0	10,3	1,1
			Year	85,8	14,3	0,0	0,0	0,0	13,2	1,1
		2019	Feb	86,2	13,8	0,0	0,0	0,0	12,7	1,1
			May	89,9	10,1	0,0	0,0	0,0	9,0	1,1
			Aug	88,5	11,5	0,7	0,0	0,0	9,8	1,1
			Nov	89,9	10,1	0,7	0,0	0,0	8,4	1,1
			Year	88,6	11,4	0,4	0,0	0,0	10,0	1,1
		2020	Feb	81,0	19,0	0,7	0,0	0,0	17,2	1,1
			May	49,5	50,5	0,0	0,0	0,0	19,4	31,2

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Other non-metallic mineral products	Weight = 2,52	2018	Feb	79,9	20,1	0,2	0,3	0,0	14,6	5,1
			May	79,3	20,7	0,4	0,1	0,0	14,4	5,7
			Aug	81,0	19,0	1,2	0,1	0,0	13,6	4,1
			Nov	81,2	18,8	0,0	0,0	0,0	15,0	3,8
			Year	80,4	19,7	0,5	0,1	0,0	14,4	4,7
		2019	Feb	76,0	24,0	0,9	0,4	0,0	16,6	6,2
			May	75,6	24,4	0,2	0,4	0,0	18,1	5,7
			Aug	73,0	27,0	2,3	0,1	0,0	18,7	6,0
			Nov	75,9	24,1	2,0	0,0	0,0	15,2	6,8
			Year	75,1	24,9	1,4	0,2	0,0	17,2	6,2
		2020	Feb	72,3	27,7	0,3	0,0	0,0	23,5	3,9
			May	42,1	57,9	4,8	5,2	0,2	20,8	27,0

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Division: Basic iron and steel, non-ferrous metal products, metal products and machinery	Weight = 18,69	2018	Feb	76,3	23,7	2,8	1,5	0,1	16,1	3,2
			May	76,9	23,1	3,4	1,5	0,1	15,6	2,5
			Aug	77,2	22,8	2,9	1,5	0,0	15,8	2,6
			Nov	77,6	22,4	2,9	1,4	0,0	15,9	2,2
			Year	77,0	23,0	3,0	1,5	0,1	15,9	2,6
		2019	Feb	76,6	23,4	3,0	1,4	0,0	16,7	2,3
			May	77,9	22,1	3,1	1,6	0,1	15,1	2,2
			Aug	74,5	25,5	3,1	1,5	0,1	18,0	2,8
			Nov	75,0	25,0	3,5	1,7	0,0	16,3	3,5
			Year	76,0	24,0	3,2	1,6	0,1	16,5	2,7
		2020	Feb	73,8	26,2	4,9	1,6	0,2	15,6	3,9
			May	55,6	44,4	5,9	2,2	0,6	17,9	17,8

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Basic iron and steel products	Weight = 3,57	2018	Feb	74,7	25,3	6,2	3,9	0,0	10,4	4,7
			May	76,3	23,7	6,8	3,9	0,0	9,9	3,1
			Aug	75,3	24,7	5,2	3,8	0,0	10,0	5,7
			Nov	78,1	21,9	5,0	3,6	0,0	11,1	2,2
			Year	76,1	23,9	5,8	3,8	0,0	10,4	3,9
		2019	Feb	77,9	22,1	5,2	3,3	0,1	11,0	2,6
			May	76,6	23,4	6,4	4,4	0,0	9,8	2,8
			Aug	69,4	30,6	6,8	4,3	0,0	16,2	3,3
			Nov	69,0	31,0	6,4	4,0	0,1	14,5	6,0
			Year	73,2	26,8	6,2	4,0	0,1	12,9	3,7
		2020	Feb	65,6	34,4	6,7	4,2	0,0	14,9	8,6
			May	40,2	59,8	7,9	5,3	0,0	21,3	25,3

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Non-ferrous metal products	Weight = 2,58	2018	Feb	77,8	22,2	0,5	0,7	0,2	13,9	7,0
			May	80,3	19,7	0,7	0,2	0,0	15,5	3,3
			Aug	81,3	18,7	0,8	0,2	0,0	15,2	2,5
			Nov	80,9	19,1	0,5	0,2	0,0	16,1	2,3
			Year	80,1	19,9	0,6	0,3	0,1	15,2	3,8
		2019	Feb	77,8	22,2	1,1	0,3	0,0	17,5	3,4
			May	80,5	19,5	0,8	0,3	0,0	16,1	2,4
			Aug	76,2	23,8	0,8	0,2	0,0	17,9	4,9
			Nov	76,9	23,1	0,7	0,2	0,0	16,9	5,3
			Year	77,9	22,2	0,9	0,3	0,0	17,1	4,0
		2020	Feb	77,6	22,4	1,2	0,4	0,1	16,5	4,2
			May	55,2	44,8	0,7	0,2	0,0	17,7	26,3

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Fabricated metal products	Weight = 5,78	2018	Feb	72,9	27,1	2,4	1,0	0,2	19,9	3,6
			May	74,1	25,9	2,0	1,2	0,4	18,8	3,6
			Aug	73,9	26,1	2,2	1,4	0,1	19,4	3,0
			Nov	73,7	26,3	2,8	1,6	0,0	18,2	3,7
			Year	73,7	26,4	2,4	1,3	0,2	19,1	3,5
		2019	Feb	72,7	27,3	3,4	1,5	0,0	19,0	3,4
			May	74,6	25,4	2,6	1,4	0,1	17,9	3,4
			Aug	72,7	27,3	2,1	1,4	0,2	19,3	4,3
			Nov	72,2	27,8	3,2	2,1	0,1	18,0	4,4
			Year	73,1	27,0	2,8	1,6	0,1	18,6	3,9
		2020	Feb	71,8	28,2	3,7	1,4	0,0	17,8	5,2
			May	44,7	55,3	5,5	3,2	0,3	24,7	21,6

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Machinery and equipment	Weight = 6,76	2018	Feb	79,4	20,6	2,2	0,9	0,0	16,7	0,7
			May	78,3	21,7	3,8	1,0	0,0	16,0	0,9
			Aug	79,1	20,9	3,2	0,9	0,1	16,0	0,7
			Nov	79,1	20,9	2,9	0,7	0,0	16,5	0,8
			Year	79,0	21,0	3,0	0,9	0,0	16,3	0,8
		2019	Feb	78,9	21,1	2,3	0,7	0,0	17,4	0,7
			May	80,6	19,4	2,6	0,9	0,1	15,1	0,7
			Aug	77,8	22,2	2,9	0,7	0,1	18,0	0,6
			Nov	79,9	20,1	3,2	0,7	0,0	15,5	0,6
			Year	79,3	20,7	2,8	0,8	0,1	16,5	0,7
		2020	Feb	78,0	22,0	6,4	0,8	0,7	13,8	0,3
			May	73,4	26,6	7,0	0,5	1,3	10,4	7,4

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Division: Electrical machinery	Weight = 1,64	2018	Feb	79,1	20,9	0,9	0,6	0,4	18,6	0,5
			May	78,1	21,9	1,0	0,7	0,6	19,1	0,5
			Aug	78,5	21,5	1,2	1,0	0,7	18,3	0,2
			Nov	77,8	22,2	1,4	1,4	0,6	18,7	0,1
			Year	78,4	21,6	1,1	0,9	0,6	18,7	0,3
		2019	Feb	78,7	21,3	1,1	1,6	0,7	17,5	0,4
			May	79,8	20,3	1,5	1,0	0,7	16,8	0,3
			Aug	78,7	21,3	1,0	1,1	0,2	18,8	0,2
			Nov	78,4	21,6	1,8	1,1	0,1	18,4	0,2
			Year	78,9	21,1	1,4	1,2	0,4	17,9	0,3
		2020	Feb	76,9	23,1	1,5	0,7	0,0	20,6	0,3
			May	55,1	44,9	2,3	0,0	0,0	26,6	16,0

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Division: Radio, television and communication apparatus and professional equipment	Weight = 1,54	2018	Feb	84,5	15,5	0,8	0,0	0,0	14,1	0,6
			May	81,9	18,1	1,1	0,0	0,0	16,4	0,6
			Aug	80,4	19,6	1,3	0,0	0,0	17,2	1,1
			Nov	83,0	17,0	1,1	0,0	0,0	14,8	1,1
			Year	82,5	17,6	1,1	0,0	0,0	15,6	0,9
		2019	Feb	81,2	18,8	1,4	0,0	0,0	16,3	1,1
			May	81,7	18,3	1,5	0,0	0,0	16,4	0,4
			Aug	80,3	19,7	1,9	0,0	0,0	17,4	0,4
			Nov	80,5	19,5	1,9	0,0	0,0	17,2	0,4
			Year	80,9	19,1	1,7	0,0	0,0	16,8	0,6
		2020	Feb	79,9	20,1	2,6	0,0	0,0	17,3	0,2
			May	72,0	28,0	2,5	0,0	0,0	23,4	2,1

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Radio, television and communication apparatus	Weight = 0,90	2018	Feb	82,5	17,5	0,3	0,0	0,0	16,5	0,7
			May	81,6	18,4	0,3	0,0	0,0	17,4	0,7
			Aug	81,1	18,9	0,7	0,0	0,0	16,6	1,6
			Nov	83,4	16,6	0,7	0,0	0,0	14,4	1,6
			Year	82,2	17,9	0,5	0,0	0,0	16,2	1,2
		2019	Feb	82,2	17,8	1,2	0,0	0,0	14,9	1,6
			May	82,5	17,5	1,4	0,0	0,0	15,7	0,4
			Aug	79,7	20,3	2,0	0,0	0,0	17,9	0,4
			Nov	79,4	20,6	2,1	0,0	0,0	18,1	0,4
			Year	81,0	19,1	1,7	0,0	0,0	16,7	0,7
		2020	Feb	80,1	19,9	2,9	0,0	0,0	17,0	0,0
			May	78,3	21,7	1,3	0,0	0,0	18,4	2,0

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
							Skilled	Semi-and unskilled		
Professional equipment	Weight = 0,64	2018	Feb	87,2	12,8	1,6	0,0	0,0	10,8	0,4
			May	82,2	17,8	2,3	0,0	0,0	15,1	0,4
			Aug	79,2	20,8	2,3	0,0	0,0	18,1	0,4
			Nov	82,6	17,4	1,6	0,0	0,0	15,4	0,4
			Year	82,8	17,2	2,0	0,0	0,0	14,9	0,4
		2019	Feb	79,7	20,3	1,6	0,0	0,0	18,3	0,4
			May	80,6	19,4	1,6	0,0	0,0	17,4	0,4
			Aug	81,2	18,8	1,6	0,0	0,0	16,8	0,4
			Nov	81,9	18,1	1,6	0,0	0,0	16,1	0,4
			Year	80,9	19,2	1,6	0,0	0,0	17,2	0,4
		2020	Feb	79,4	20,6	2,3	0,0	0,0	17,8	0,6
			May	63,2	36,8	4,2	0,0	0,0	30,4	2,2

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
							Skilled	Semi-and unskilled		
Division: Motor vehicles, parts and accessories and other transport equipment	Weight = 7,56	2018	Feb	82,6	17,4	1,4	1,2	0,1	12,3	2,4
			May	84,5	15,5	0,9	1,0	0,2	11,3	2,1
			Aug	83,5	16,5	0,9	1,3	0,2	11,7	2,4
			Nov	85,0	15,0	0,7	1,0	0,2	10,8	2,3
			Year	83,9	16,1	1,0	1,1	0,2	11,5	2,3
		2019	Feb	83,0	17,0	1,0	1,2	0,2	11,8	2,8
			May	83,9	16,1	0,7	1,2	0,1	11,3	2,8
			Aug	83,3	16,7	0,8	1,2	0,2	12,1	2,4
			Nov	81,3	18,7	0,8	1,2	0,1	14,0	2,6
			Year	82,9	17,1	0,8	1,2	0,2	12,3	2,7
		2020	Feb	81,6	18,4	0,8	1,1	0,1	13,5	2,9
			May	49,3	50,7	2,0	0,4	0,0	22,3	26,0

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
							Skilled	Semi-and unskilled		
Motor vehicles, trailers and parts and accessories	Weight = 6,33	2018	Feb	83,7	16,3	1,6	0,4	0,0	11,5	2,8
			May	85,1	14,9	1,1	0,2	0,0	11,2	2,4
			Aug	85,6	14,4	1,0	0,2	0,0	10,9	2,3
			Nov	86,6	13,4	0,7	0,2	0,0	10,3	2,1
			Year	85,3	14,8	1,1	0,3	0,0	11,0	2,4
		2019	Feb	85,2	14,8	1,1	0,2	0,0	10,8	2,7
			May	86,3	13,7	0,7	0,2	0,0	10,2	2,7
			Aug	85,7	14,3	0,9	0,2	0,0	11,1	2,1
			Nov	83,1	16,9	0,9	0,2	0,0	13,4	2,4
			Year	85,1	14,9	0,9	0,2	0,0	11,4	2,5
		2020	Feb	83,4	16,6	0,9	0,2	0,0	12,7	2,8
			May	50,9	49,1	2,2	0,5	0,0	24,1	22,3

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Other transport equipment	Weight = 1,23	2018	Feb	77,3	22,7	0,4	5,5	0,2	16,1	0,6
			May	81,5	18,5	0,4	4,7	0,8	12,1	0,6
			Aug	73,0	27,0	0,5	6,6	1,1	15,8	3,0
			Nov	76,5	23,5	0,5	5,1	1,1	13,5	3,2
			Year	77,1	22,9	0,5	5,5	0,8	14,4	1,9
		2019	Feb	71,7	28,3	0,5	6,6	1,1	17,0	3,2
			May	72,0	28,0	0,8	6,1	0,4	17,2	3,5
			Aug	71,3	28,7	0,5	6,6	1,1	17,0	3,5
			Nov	72,2	27,8	0,4	6,1	0,8	17,0	3,5
			Year	71,8	28,2	0,6	6,4	0,9	17,1	3,4
		2020	Feb	72,1	27,9	0,0	6,1	0,8	17,5	3,5
			May	41,7	58,3	0,7	0,0	0,0	12,8	44,8

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Division: Furniture and other manufacturing industries	Weight = 3,11	2018	Feb	81,1	18,9	1,7	0,6	0,8	14,9	0,9
			May	79,2	20,8	1,6	0,6	0,6	11,9	6,1
			Aug	83,0	17,0	1,4	0,7	0,4	13,9	0,6
			Nov	85,9	14,1	1,4	0,7	0,4	11,0	0,6
			Year	82,3	17,7	1,5	0,7	0,6	12,9	2,1
		2019	Feb	78,4	21,6	1,3	0,4	0,7	18,6	0,6
			May	82,3	17,7	1,6	0,7	0,6	14,2	0,6
			Aug	82,2	17,8	1,5	0,7	1,0	14,0	0,6
			Nov	82,8	17,2	1,4	0,7	0,7	13,7	0,7
			Year	81,4	18,6	1,5	0,6	0,8	15,1	0,6
		2020	Feb	78,5	21,5	1,5	1,7	0,6	17,1	0,6
			May	39,2	60,8	1,8	0,8	0,3	23,9	34,0

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Furniture	Weight = 1,07	2018	Feb	83,9	16,1	1,0	0,0	2,0	13,1	0,0
			May	86,0	14,0	0,8	0,0	1,5	11,7	0,0
			Aug	87,3	12,7	0,5	0,0	1,1	11,1	0,0
			Nov	87,3	12,7	0,5	0,0	1,1	11,1	0,0
			Year	86,1	13,9	0,7	0,0	1,4	11,8	0,0
		2019	Feb	79,1	20,9	1,0	0,0	2,0	18,0	0,0
			May	85,7	14,3	0,8	0,0	1,5	12,1	0,0
			Aug	81,0	19,0	1,0	0,0	2,0	16,0	0,0
			Nov	83,6	16,4	0,5	0,0	1,1	14,7	0,0
			Year	82,4	17,7	0,8	0,0	1,7	15,2	0,0
		2020	Feb	71,7	28,3	0,0	2,3	0,8	25,2	0,0
			May	42,5	57,5	0,0	0,0	0,0	44,5	13,0

1/ Data for the latest two months are preliminary.

Manufacturing divisions and major groups 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Other manufacturing groups including tobacco products	Weight = 2,04	2018	Feb	79,6	20,4	2,1	0,9	0,1	15,8	1,4
			May	75,6	24,4	2,1	0,9	0,1	12,0	9,3
			Aug	80,7	19,3	1,9	1,1	0,0	15,4	0,9
			Nov	85,2	14,8	1,8	1,1	0,0	11,0	0,9
			Year	80,3	19,7	2,0	1,0	0,1	13,6	3,1
	2019	Feb	78,0	22,0	1,4	0,7	0,0	18,9	0,9	
		May	80,5	19,5	2,1	1,1	0,1	15,3	0,9	
		Aug	82,7	17,3	1,9	1,1	0,5	12,9	1,0	
		Nov	82,3	17,7	1,8	1,1	0,5	13,2	1,0	
		Year	80,9	19,1	1,8	1,0	0,3	15,1	1,0	
	2020	Feb	82,0	18,0	2,4	1,4	0,6	12,8	0,9	
		May	37,3	62,7	2,8	1,3	0,5	13,0	45,1	

Total manufacturing 1/				Utilisation	Reasons for under-utilisation					
					Total under-utilisation	Shortage of			Insufficient demand	Other
						Raw materials	Labour			
			Skilled	Semi-and unskilled						
Total manufacturing	Weight = 100	2018	Feb	80,6	19,4	1,9	1,0	0,2	11,7	4,6
			May	80,7	19,3	2,1	1,0	0,2	11,5	4,5
			Aug	81,1	18,9	2,0	1,0	0,2	11,7	4,0
			Nov	83,0	17,0	1,6	0,9	0,2	10,8	3,5
			Year	81,4	18,7	1,9	1,0	0,2	11,4	4,2
	2019	Feb	80,8	19,2	1,9	1,0	0,2	12,1	4,0	
		May	81,3	18,7	2,2	1,0	0,2	11,7	3,6	
		Aug	80,3	19,7	2,5	1,0	0,2	12,4	3,6	
		Nov	80,9	19,1	2,6	1,1	0,2	11,6	3,6	
		Year	80,8	19,2	2,3	1,0	0,2	12,0	3,7	
	2020	Feb	77,6	22,4	2,8	1,1	0,2	12,9	5,4	
		May	60,9	39,1	3,3	1,4	0,3	18,7	15,4	

1/ Data for the latest two months are preliminary.

Explanatory notes

Introduction	1	This statistical release contains information regarding utilisation of production capacity, total under-utilisation and reasons for under-utilisation by division and major group within manufacturing, on a three-monthly basis. Statistics South Africa (Stats SA) conducts the survey of utilisation of production capacity by large enterprises mainly engaged in the manufacturing industry.
	2	Stats SA is continuously updating its Business Register, based on the value added tax (VAT) database obtained from the South African Revenue Service (SARS).
Purpose of the survey	3	The results of the quarterly manufacturing utilisation of production capacity survey are used to assess the degree of capacity constraint experienced in the manufacturing industry. The information in this release is a key component in the Composite Coincident Business Cycle Indicator and is used to analyse movements in gross fixed capital formation in the national accounts.
Scope of the survey	4	This survey covers large manufacturing enterprises, i.e. those with turnover greater than R100 million per annum and conducting activities in - <ul style="list-style-type: none"> • the manufacturing, processing, making or packing of products; • the slaughtering of animals, including poultry; and • installation, assembly, completion, repair and related work.
Classification	5	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.
Collection rate	6	The preliminary collection rate for the survey on manufacturing: utilisation of production capacity by large enterprises for May 2020 was 73,9%. The improved collection rate for February 2020 was 74,2%.
Survey methodology and design	7	The survey is collected by email and telephone for four months per year, namely February, May, August and November. Questionnaires are sent to a sample of approximately 980 enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Email and telephone reminders are used to follow up non-respondents.
Sample design	8	There is no probability sampling involved in this survey. The rate of utilisation of production capacity is obtained three-monthly from a population of approximately 980 large enterprises (those with VAT turnover greater than R100 million per annum), which is a subset of a population of approximately 45 130 manufacturing enterprises. The population is classified to major group at the SIC three-digit level.
Weighting methodology	9	The weights for aggregating the utilisation rate of manufacturing major groups to divisions and divisions to total manufacturing were calculated 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 under-utilisation of each major group in a division is multiplied by the applicable weight and aggregated to reflect the under-utilisation of the division. The under-utilisation of total manufacturing is calculated by weighting the under-utilisation of the divisions. The reasons for under-utilisation are weighted according to the relative importance of the reasons furnished by the respondents. If the respondent gives three reasons for under-utilisation, the weight of the most important reason is 0,5; the weight of the second-most important reason is 0,33 and the weight of the least important reason is 0,17. The percentage under-utilisation of the most important reason is 0,5 multiplied by the total under-utilisation reported by the respective respondent. The percentage under-utilisation of the second-most important reason and least important reason are calculated in the same way.

The total under-utilisation per reason within a major group is calculated by adding the weighted under-utilisation reported by each respondent per reason per major group. The total under-utilisation per reason per division is calculated by weighting the under-utilisation per group in the division. The under-utilisation per reason of total manufacturing is calculated by weighting the under-utilisation rate of the divisions. The weighting factors for aggregating the under-utilisation rate per reason of manufacturing major groups to divisions and divisions to total manufacturing were calculated per reason 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. 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

A weight is calculated for each enterprise based on the total sales of the enterprise compared with the total sales of enterprises classified in the major group.

Trend cycle	10	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	11	Data presented in this publication are based on information obtained from a partial coverage collection of only the large enterprises in manufacturing, and therefore may differ from the figures that would have been produced if the data had also been obtained from a representative sample of smaller enterprises in manufacturing.														
	12	Within the defined coverage, 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 observations as a result of seasonal and economic factors.														
Revised figures	13	Revised figures in this issue are due to late submissions of data to Stats SA, or to respondents reporting revisions or corrections to their figures. Preliminary figures are indicated in the relevant tables. Data are edited at the enterprise level.														
Related publications	14	Users may also wish to refer to <i>Stats in Brief</i> available from Stats SA.														
Reference period	15	The reference period is one month, and the survey is collected for the months of February, May, August and November.														
Rounding-off of figures	16	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.														
Symbols and abbreviations	17	<table> <tbody> <tr> <td>ISIC</td> <td>International Standard Industrial Classification</td> </tr> <tr> <td>SIC</td> <td>Standard Industrial Classification of all Economic Activities</td> </tr> <tr> <td>SARS</td> <td>South African Revenue Service</td> </tr> <tr> <td>Stats SA</td> <td>Statistics South Africa</td> </tr> <tr> <td>VAT</td> <td>Value added tax</td> </tr> <tr> <td>0,0</td> <td>Figure too small to publish</td> </tr> <tr> <td>*</td> <td>Revised figures</td> </tr> </tbody> </table>	ISIC	International Standard Industrial Classification	SIC	Standard Industrial Classification of all Economic Activities	SARS	South African Revenue Service	Stats SA	Statistics South Africa	VAT	Value added tax	0,0	Figure too small to publish	*	Revised figures
ISIC	International Standard Industrial Classification															
SIC	Standard Industrial Classification of all Economic Activities															
SARS	South African Revenue Service															
Stats SA	Statistics South Africa															
VAT	Value added tax															
0,0	Figure too small to publish															
*	Revised figures															

Glossary

Enterprise	An enterprise is a legal entity or a combination of legal entities 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 (SNA)</i> 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.
Output	<p>Output is the aggregate value of goods manufactured and work done and includes:</p> <ul style="list-style-type: none"> • sales and transfers-out of own manufactures, factory waste and stocks of factored goods; • repairs; • installation, erection and assembly; • sundry trading revenue; • sales of factored goods minus purchases of factored goods; • rent and leasing received; • royalties received; • difference between opening value and closing value of work in progress, stocks of own manufactures and stock of factored goods; • head office charges; and • other revenue. <p>Output excludes excise and customs duty paid.</p>
Statistical unit	A statistical unit is a unit about which statistics are tabulated, compiled or published. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.
Skilled employees	Skilled employees are persons who have undergone training or education in and/or outside their work environment and who are in possession of a minimum level of secondary qualification to qualify for their occupation. Employees in this category must have undergone at least two years study or training after having completed Grade 12.
Semi-skilled employees	Semi-skilled employees are persons who acquired their expertise through a relatively short training period (single days or weeks) after which the required tasks should be efficiently performed. They must possess basic literacy and numeracy prior to training, but primary education is sufficient as a prerequisite for training.
Unskilled employees	Unskilled employees are persons who have not undergone any formal training or of whom no minimum level of education is required.
'Other' reasons for under-utilisation	Other reasons include reasons such as downtime due to maintenance, changes in productivity and seasonal factors.
Percentage utilisation of production capacity	The percentage utilisation of production capacity in the manufacturing industry is a measure of the use of manpower, plant and machinery in manufacturing.
Percentage under-utilisation of production capacity	The percentage under-utilisation of production capacity is calculated by deducting the percentage utilisation of production capacity from a hundred.

Value added

Value added is the value of output less intermediate consumption. It represents the value added to the cost of the materials used in the process of production.

Turnover

Turnover refers to:

- the value of sales and transfers out of all own manufactured products/articles;
- amounts received for work done; and
- amounts received for services rendered.

Turnover excludes:

- value added tax (VAT);
- export freight charges; and
- excise duty.

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Table E – Weights according to manufacturing major groups

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

