

STATISTICAL RELEASE

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

May 2018

This is the first publication with weights based on national accounts value added data for 2014–2016. Previously, the manufacturing divisions and total manufacturing utilisation rates were calculated using weights based on national accounts value added data for 2013–2015.

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Key results for May 2018

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

Estimates		May 2017 (%) *	February 2018 (%) 1/	May 2018 (%) 1/	% point difference between May 2017 and May 2018
Utilisation of production capacity		80,8	80,5	80,6	-0,2
Under-utilisation of production capacity		19,2	19,5	19,4	0,2
Reasons for under-utilisation:	Shortage of raw materials	2,0	1,9	2,1	0,1
	Shortage of labour	1,2	1,2	1,2	0,0
	Insufficient demand	11,8	11,7	11,5	-0,3
	Other reasons	4,2	4,7	4,6	0,4

1/ Preliminary.

* Revised due to reweighting. See note on page 4.

The utilisation of production capacity by large manufacturers was 80,6% in May 2018 compared with 80,8% in May 2017, a decrease of 0,2 of a percentage point.

Under-utilisation of production capacity increased by 0,2 of a percentage point between May 2017 and May 2018. 'Other reasons' (such as downtime due to maintenance and changes in productivity) increased by 0,4 of a percentage point, while insufficient demand fell by 0,3 of a percentage point – see Table A.

Figure 1 – Utilisation of production capacity in the manufacturing industry

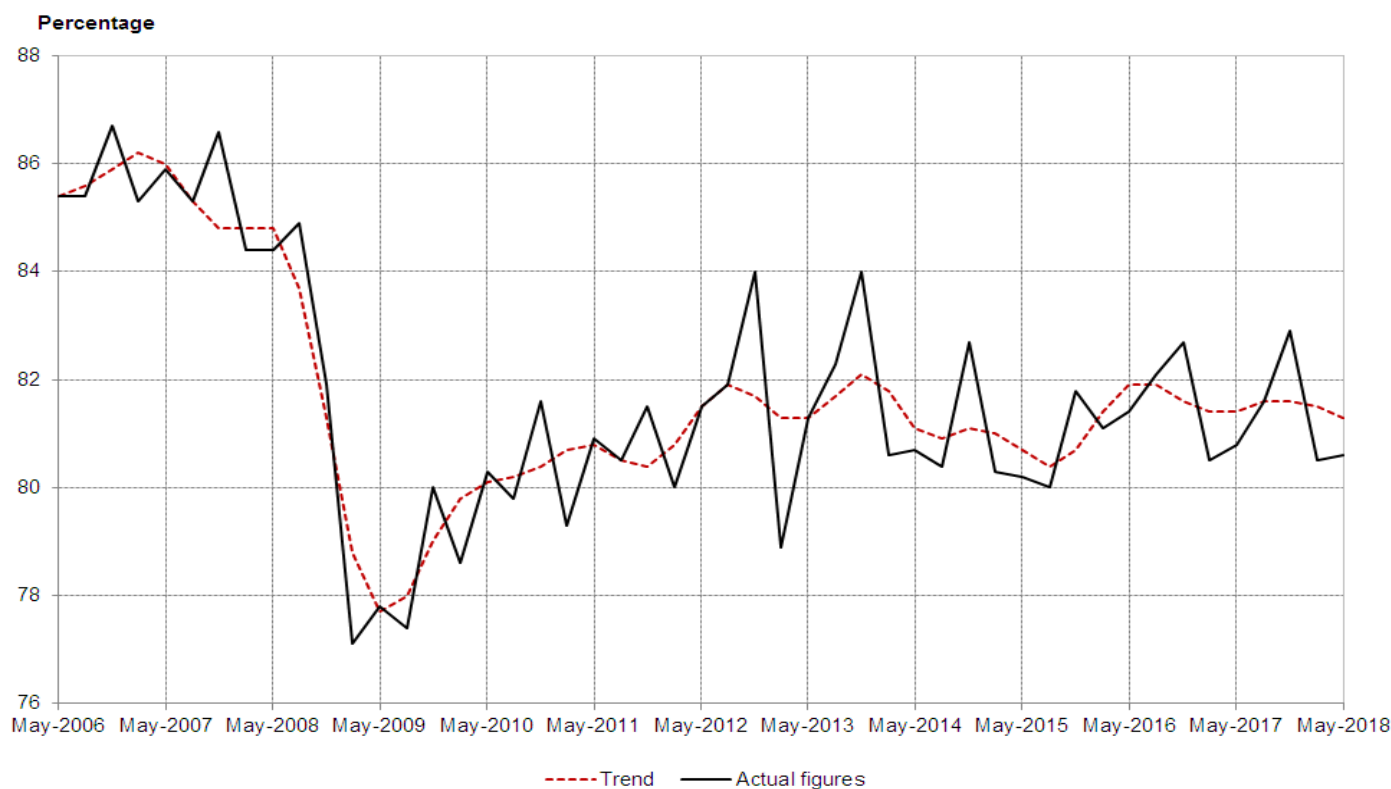


Table B – Utilisation of production capacity in the manufacturing industry by division

Manufacturing divisions	Weights *	May 2017 (%) 2/ *	May 2018 (%) 1/ 2/	% point difference between May 2017 and May 2018
Food and beverages	25,78	82,5	81,1	-1,4
Textiles, clothing, leather and footwear	3,21	71,7	72,4	0,7
Wood and wood products, paper, publishing and printing	11,28	82,5	82,5	0,0
Petroleum, chemical products, rubber and plastic products	23,82	81,0	82,5	1,5
Glass and non-metallic mineral products	3,53	81,3	80,5	-0,8
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,74	78,2	76,9	-1,3
Electrical machinery	1,63	79,0	78,1	-0,9
Radio, television and communication apparatus and professional equipment	1,59	86,4	82,1	-4,3
Motor vehicles, parts and accessories and other transport equipment	7,20	81,2	84,0	2,8
Furniture and other manufacturing	3,22	81,5	78,9	-2,6
Total manufacturing	100	80,8	80,6	-0,2

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.

* Revised due to reweighting. See note on page 4.

Six of the ten manufacturing divisions showed decreases in utilisation of production capacity in May 2018 compared with May 2017. Decreases were recorded in the following divisions:

- radio, television and communication apparatus and professional equipment (-4,3 percentage points);
- furniture and 'other' manufacturing (-2,6 percentage points);
- food and beverages (-1,4 percentage points);
- basic iron and steel, non-ferrous metal products, metal products and machinery (-1,3 percentage points);
- electrical machinery (-0,9 of a percentage point); and
- glass and non-metallic mineral products (-0,8 of a percentage point).

The following divisions recorded rates of utilisation of production capacity above 80% in May 2018:

- motor vehicles, parts and accessories and other transport equipment (84,0%);
- wood and wood products, paper, publishing and printing (82,5%);
- petroleum, chemical products, rubber and plastic products (82,5%);
- radio, television and communication apparatus and professional equipment (82,1%);
- food and beverages (81,1%); and
- glass and non-metallic mineral products (80,5%) – see Table B.

Risenga Maluleke
Statistician-General

Note – Reweighting of utilisation of production capacity

Introduction

Statistics South Africa (Stats SA) conducts a three-monthly survey of the utilisation of production capacity in the manufacturing industry covering large manufacturing enterprises. This statistical release contains monthly utilisation rates according to the survey. The results of the manufacturing percentages of utilisation of production capacity published today contain changes related to reweighting.

Reweighting

New high-level weights for the manufacturing groups and divisions were calculated based on national accounts value added data up to 2016. Previously, the weights were calculated from national accounts value added data up to 2015. The new and previous weights are shown in Table C below and in more detail in Table E on page 23. The high-level weights are calculated as a three-year average of value added. The high-level weights for 2015 are the average of value added for 2013, 2014 and 2015, and the high-level weights for 2016 and following years are the average for 2014, 2015 and 2016. Historically, changes in manufacturing weights have been small, and the use of a moving average provides additional stability in the weights. The weights are updated annually.

The impact of reweighting the rate of utilisation of production capacity is illustrated in Tables C and D and Figure 2.

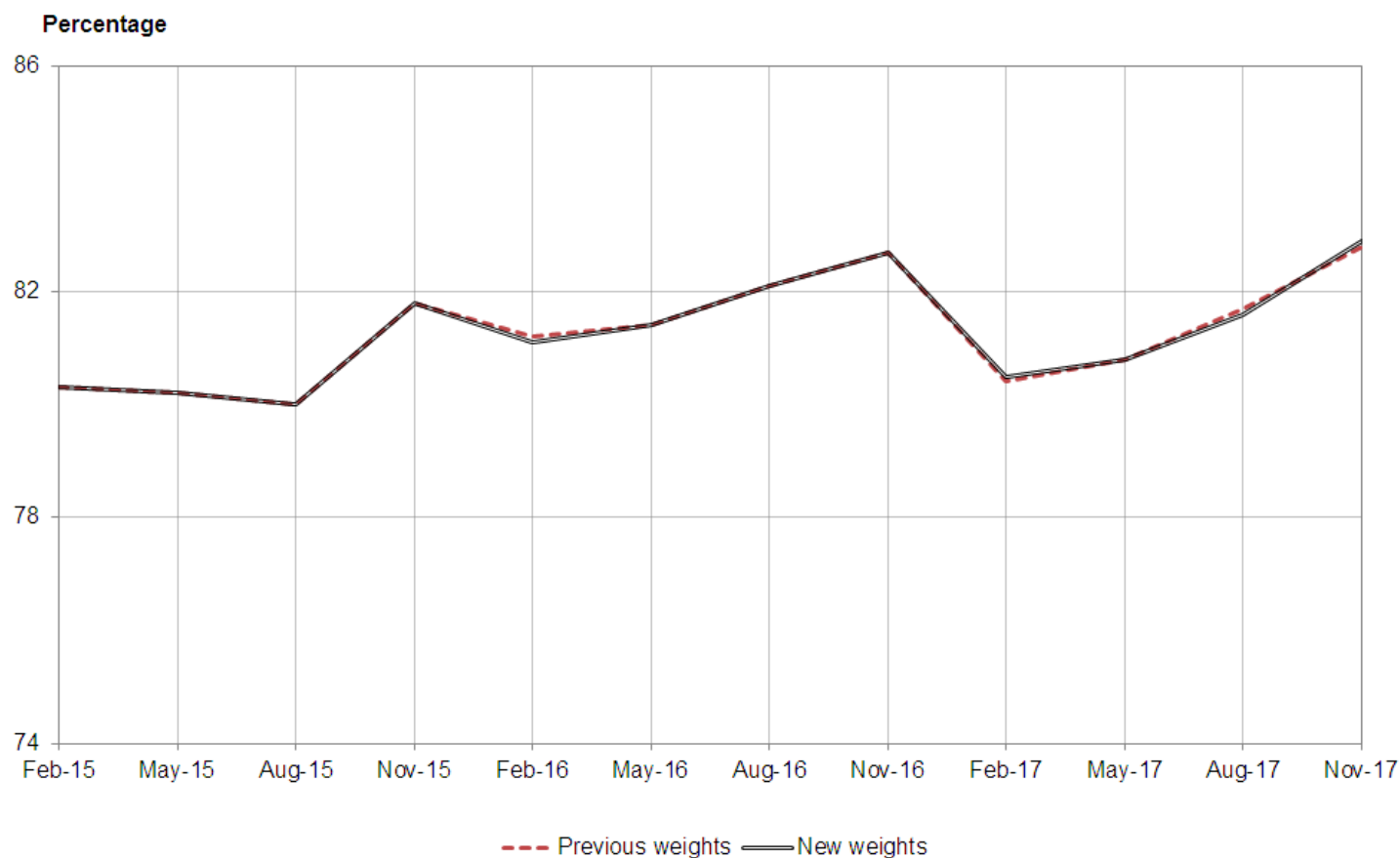
Table C – Comparison of utilisation of production capacity in 2017, based on previous and new weights

Manufacturing divisions	Previous weights based on value added for 2013 – 2015	New weights based on value added for 2014 – 2016	Utilisation rates 2017		Difference in results (% points)
			Previous weights (%) 1/	New weights (%) 1/	
Food and beverages	25,15	25,78	82,5	82,6	0,1
Textiles, clothing, leather and footwear	3,28	3,21	72,4	72,4	0,0
Wood and wood products, paper, publishing and printing	11,62	11,28	82,9	82,9	0,0
Petroleum, chemical products, rubber and plastic products	24,01	23,82	83,5	83,5	0,0
Glass and non-metallic mineral products	3,90	3,53	81,0	81,0	0,0
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,72	18,74	77,9	77,8	-0,1
Electrical machinery	1,65	1,63	80,1	80,0	-0,1
Radio, television and communication apparatus and professional equipment	1,61	1,59	85,4	85,4	0,0
Motor vehicles, parts and accessories and other transport equipment	6,86	7,20	82,3	82,3	0,0
Furniture and other manufacturing	3,20	3,22	81,0	81,3	0,3
Total manufacturing	100	100	81,4	81,5	0,1

1/ 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 C due to rounding off.

Table D – Annual percentage point difference in the rate of utilisation of production capacity based on previous and new weights

Manufacturing divisions	Previous weights		New weights	
	2016	2017	2016	2017
Food and beverages	0,5	-0,6	0,4	-0,4
Textiles, clothing, leather and footwear	-1,3	-1,9	-1,2	-2,0
Wood and wood products, paper, publishing and printing	1,7	-0,3	1,7	-0,3
Petroleum, chemical products, rubber and plastic products	3,0	-0,7	3,0	-0,7
Glass and non-metallic mineral products	2,1	-1,1	2,1	-1,1
Basic iron and steel, non-ferrous metal and metal products and machinery	0,4	0,4	0,4	0,3
Electrical machinery	-0,1	0,0	-0,3	0,1
Radio, television and communication apparatus and professional equipment	2,2	0,2	2,2	0,2
Motor vehicles, parts and accessories and other transport equipment	0,1	0,0	0,1	0,0
Furniture and other manufacturing	1,5	1,5	1,9	1,4
Total manufacturing	1,3	-0,5	1,2	-0,3

Figure 2 – Comparison of total manufacturing utilisation rates based on previous and new weights

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 = 25,78	2016	Feb	82,5	17,5	2,1	1,2	0,3	10,1	3,8
			May	82,3	17,7	2,1	1,3	0,2	9,7	4,4
			Aug	83,5	16,5	2,2	1,1	0,3	9,1	3,8
			Nov	83,6	16,4	1,9	1,3	0,3	9,1	3,8
			Year	83,0	17,0	2,1	1,2	0,3	9,5	4,0
		2017	Feb	81,1	18,9	2,9	1,3	0,3	10,4	4,0
			May	82,5	17,5	2,5	1,1	0,2	10,5	3,2
			Aug	82,7	17,3	2,9	1,3	0,3	10,0	2,8
			Nov	83,9	16,1	1,8	1,3	0,5	9,5	3,0
			Year	82,6	17,5	2,5	1,3	0,3	10,1	3,3
		2018	Feb	81,3	18,7	2,6	1,3	0,3	10,8	3,7
			May	81,1	18,9	2,6	1,2	0,4	10,5	4,2

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			
Food and food products	Weight = 19,45	2016	Feb	81,6	18,4	2,2	1,3	0,3	10,9	3,8
			May	81,3	18,7	2,2	1,4	0,2	10,3	4,7
			Aug	83,0	17,0	2,2	1,0	0,3	9,9	3,6
			Nov	82,2	17,8	1,8	1,5	0,3	10,0	4,3
			Year	82,0	18,0	2,1	1,3	0,3	10,3	4,1
		2017	Feb	80,6	19,4	2,3	1,4	0,3	11,0	4,4
			May	81,7	18,3	2,1	1,2	0,2	11,3	3,4
			Aug	82,0	18,0	2,6	1,4	0,3	10,8	2,9
			Nov	82,6	17,4	2,0	1,4	0,6	10,5	2,9
			Year	81,7	18,3	2,3	1,4	0,4	10,9	3,4
		2018	Feb	80,7	19,3	2,0	1,4	0,4	11,5	4,1
			May	80,2	19,8	2,2	1,3	0,5	11,2	4,6

1/ Data for the latest two months are preliminary.

* Revised due to reweighting. See note on page 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		
Beverages	Weight = 6,33	2016	Feb	85,6	14,4	1,9	0,8	0,2	7,7	3,8
			May	85,5	14,5	2,0	1,0	0,3	7,7	3,6
			Aug	85,1	14,9	2,4	1,4	0,3	6,6	4,3
			Nov	88,1	11,9	2,1	1,0	0,3	6,3	2,1
			Year	86,1	13,9	2,1	1,1	0,3	7,1	3,5
		2017	Feb	82,8	17,2	4,6	1,0	0,3	8,7	2,8
			May	84,5	15,5	3,6	0,9	0,3	8,2	2,6
			Aug	84,7	15,3	4,0	0,9	0,3	7,6	2,5
			Nov	87,6	12,4	1,4	0,9	0,3	6,6	3,2
			Year	84,9	15,1	3,4	0,9	0,3	7,8	2,8
		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

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 = 3,21	2016	Feb	75,2	24,8	1,5	0,9	0,4	19,3	2,7
			May	74,1	25,9	1,7	0,9	0,4	20,1	2,8
			Aug	73,7	26,3	1,9	1,1	0,4	20,2	2,7
			Nov	74,7	25,3	1,3	1,0	0,4	20,2	2,4
			Year	74,4	25,6	1,6	1,0	0,4	20,0	2,7
		2017	Feb	73,0	27,0	1,7	0,9	0,4	21,4	2,6
			May	71,7	28,3	1,9	0,9	0,4	22,0	3,1
			Aug	71,6	28,4	1,7	0,9	0,4	22,5	2,9
			Nov	73,2	26,8	1,7	0,9	0,3	21,1	2,8
			Year	72,4	27,6	1,8	0,9	0,4	21,8	2,8
		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

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 = 1,21	2016	Feb	69,6	30,4	1,2	0,6	0,0	25,5	3,2
			May	67,8	32,2	1,4	0,7	0,0	26,6	3,5
			Aug	67,9	32,1	1,7	1,0	0,0	26,0	3,3
			Nov	69,2	30,8	1,0	1,0	0,0	26,2	2,7
			Year	68,6	31,4	1,3	0,8	0,0	26,1	3,2
		2017	Feb	65,7	34,3	1,8	0,6	0,0	28,6	3,3
			May	65,6	34,4	1,6	0,5	0,0	29,0	3,3
			Aug	65,0	35,0	1,6	0,6	0,1	29,4	3,3
			Nov	66,4	33,6	1,8	0,4	0,0	28,1	3,2
			Year	65,7	34,3	1,7	0,5	0,0	28,8	3,3
		2018	Feb	65,2	34,8	1,6	0,6	0,1	28,8	3,6
			May	65,8	34,2	1,8	0,6	0,0	28,4	3,4

1/ Data for the latest two months are preliminary.

* Revised due to reweighting. See note on page 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		
Wearing apparel	Weight = 1,17	2016	Feb	78,3	21,7	0,8	1,4	0,4	15,6	3,4
			May	77,3	22,7	0,6	1,4	0,4	17,0	3,4
			Aug	77,2	22,8	0,6	1,4	0,4	17,0	3,5
			Nov	77,2	22,8	0,7	1,4	0,4	17,1	3,2
			Year	77,5	22,5	0,7	1,4	0,4	16,7	3,4
		2017	Feb	76,2	23,8	0,4	1,3	0,4	18,5	3,2
			May	75,5	24,5	0,6	1,5	0,4	18,2	3,9
			Aug	75,3	24,7	0,6	1,4	0,4	18,8	3,6
			Nov	76,1	23,9	0,6	1,5	0,4	18,0	3,5
			Year	75,8	24,2	0,6	1,4	0,4	18,4	3,6
		2018	Feb	75,8	24,2	0,6	1,5	0,4	18,1	3,6
			May	75,1	24,9	0,5	1,6	0,4	18,9	3,5

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 = 0,48	2016	Feb	74,7	25,3	4,0	0,6	1,3	17,7	1,7
			May	75,9	24,1	4,8	0,6	1,3	15,6	1,7
			Aug	71,8	28,2	5,5	0,6	1,3	19,4	1,3
			Nov	75,0	25,0	3,6	0,6	1,3	17,9	1,6
			Year	74,4	25,7	4,5	0,6	1,3	17,7	1,6
		2017	Feb	74,6	25,4	5,0	0,6	1,3	17,2	1,3
			May	71,8	28,2	5,5	0,6	1,3	18,7	2,1
			Aug	70,5	29,5	4,0	0,6	1,2	21,6	2,1
			Nov	74,3	25,7	4,2	0,8	1,2	17,6	1,9
			Year	72,8	27,2	4,7	0,7	1,3	18,8	1,9
		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

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	2016	Feb	84,9	15,1	1,9	0,7	0,0	12,4	0,0
			May	82,1	17,9	2,7	1,0	0,0	14,3	0,0
			Aug	85,5	14,5	1,9	1,0	0,0	11,6	0,0
			Nov	85,2	14,8	1,5	0,7	0,0	12,6	0,0
			Year	84,4	15,6	2,0	0,9	0,0	12,7	0,0
		2017	Feb	86,1	13,9	1,5	0,7	0,0	11,7	0,0
			May	81,1	18,9	1,9	1,0	0,0	15,0	1,1
			Aug	84,3	15,7	2,6	0,7	0,0	12,4	0,0
			Nov	85,8	14,2	1,9	1,0	0,0	11,4	0,0
			Year	84,3	15,7	2,0	0,9	0,0	12,6	0,3
		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

1/ Data for the latest two months are preliminary.

* Revised due to reweighting. See note on page 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		
Division wood, paper, publishing and printing	Weight = 11,28	2016	Feb	81,6	18,4	1,0	1,4	0,3	11,6	4,1
			May	81,8	18,2	1,2	1,5	0,4	11,1	4,0
			Aug	84,5	15,5	1,0	1,2	0,3	8,9	4,1
			Nov	85,0	15,0	1,2	1,3	0,2	9,0	3,3
			Year	83,2	16,8	1,1	1,4	0,3	10,2	3,9
		2017	Feb	83,0	17,0	1,1	1,2	0,2	10,8	3,7
			May	82,5	17,5	1,2	1,1	0,2	11,0	4,0
			Aug	82,9	17,1	1,0	1,1	0,2	11,1	3,7
			Nov	83,2	16,8	1,1	1,1	0,2	10,4	4,0
			Year	82,9	17,1	1,1	1,1	0,2	10,8	3,9
		2018	Feb	82,4	17,6	1,1	1,1	0,2	11,3	3,9
			May	82,5	17,5	1,2	1,1	0,2	10,9	4,1

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		
Wood and products of wood	Weight = 4,11	2016	Feb	83,0	17,0	1,5	0,9	0,1	9,7	4,8
			May	84,5	15,5	1,7	1,5	0,0	7,5	4,8
			Aug	86,6	13,4	1,2	0,9	0,0	6,9	4,5
			Nov	86,4	13,6	1,4	1,0	0,0	7,1	4,1
			Year	85,1	14,9	1,5	1,1	0,0	7,8	4,6
		2017	Feb	85,1	14,9	1,6	1,1	0,0	8,1	4,2
			May	83,7	16,3	1,7	0,8	0,0	9,2	4,6
			Aug	84,1	15,9	1,3	0,8	0,0	9,5	4,2
			Nov	83,7	16,3	1,4	0,8	0,0	8,6	5,5
			Year	84,2	15,9	1,5	0,9	0,0	8,9	4,6
		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

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 = 4,09	2016	Feb	85,9	14,1	0,5	1,8	0,2	5,9	5,7
			May	85,4	14,6	0,5	1,8	0,8	6,7	4,8
			Aug	88,3	11,7	0,6	1,2	0,1	4,6	5,3
			Nov	88,5	11,5	0,7	1,2	0,2	5,0	4,3
			Year	87,0	13,0	0,6	1,5	0,3	5,6	5,0
		2017	Feb	86,8	13,2	0,5	1,1	0,0	6,3	5,3
			May	86,8	13,2	0,7	1,1	0,0	5,9	5,5
			Aug	87,1	12,9	0,5	1,4	0,0	6,1	4,8
			Nov	87,7	12,3	0,8	1,5	0,1	5,5	4,6
			Year	87,1	12,9	0,6	1,3	0,0	6,0	5,1
		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

1/ Data for the latest two months are preliminary.

* Revised due to reweighting. See note on page 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					
Publishing, printing and recording media	Weight = 3,08	2016	Feb	73,7	26,3	1,1	1,7	0,7	21,8	1,1
			May	73,3	26,7	1,4	1,3	0,5	21,7	1,8
			Aug	77,0	23,0	1,5	1,6	1,0	17,2	1,7
			Nov	78,2	21,8	1,6	1,8	0,5	16,9	1,0
			Year	75,6	24,5	1,4	1,6	0,7	19,4	1,4
		2017	Feb	75,6	24,4	1,2	1,6	0,5	20,3	0,9
			May	75,3	24,7	1,2	1,5	0,5	20,3	1,2
			Aug	75,3	24,7	1,2	1,2	0,8	19,8	1,7
			Nov	76,4	23,6	1,1	1,1	0,8	19,4	1,2
			Year	75,7	24,4	1,2	1,4	0,7	20,0	1,3
		2018	Feb	75,9	24,1	1,0	1,3	0,7	19,9	1,2
			May	74,5	25,5	1,4	1,4	0,5	20,7	1,5

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		
Division petroleum, chemical products, rubber and plastic products	Weight = 23,82	2016	Feb	82,8	17,2	2,5	0,4	0,0	7,0	7,3
			May	84,7	15,3	2,2	0,5	0,1	6,5	6,0
			Aug	84,9	15,1	2,2	0,6	0,2	6,1	6,0
			Nov	84,5	15,5	2,3	0,6	0,1	6,2	6,3
			Year	84,2	15,8	2,3	0,5	0,1	6,5	6,4
		2017	Feb	82,1	17,9	1,7	0,5	0,1	7,6	8,0
			May	81,0	19,0	1,6	0,6	0,1	7,9	8,8
			Aug	84,2	15,8	1,7	0,6	0,1	6,5	6,9
			Nov	86,6	13,4	1,9	0,6	0,1	5,6	5,2
			Year	83,5	16,5	1,7	0,6	0,1	6,9	7,2
		2018	Feb	81,9	18,1	1,6	0,5	0,1	6,4	9,5
			May	82,5	17,5	2,0	0,5	0,1	6,7	8,2

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		
Coke, petroleum products and nuclear fuel	Weight = 9,18	2016	Feb	80,4	19,6	3,1	0,1	0,0	3,6	12,9
			May	82,6	17,4	3,1	0,1	0,0	2,1	12,1
			Aug	82,7	17,3	3,1	0,0	0,0	2,1	12,1
			Nov	82,3	17,7	3,3	0,0	0,0	2,1	12,3
			Year	82,0	18,0	3,2	0,1	0,0	2,5	12,4
		2017	Feb	79,7	20,3	1,7	0,0	0,0	3,1	15,4
			May	75,0	25,0	1,5	0,0	0,0	5,1	18,3
			Aug	82,5	17,5	1,5	0,0	0,0	2,0	14,0
			Nov	86,0	14,0	2,0	0,0	0,0	1,5	10,4
			Year	80,8	19,2	1,7	0,0	0,0	2,9	14,5
		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

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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		
Basic chemicals	Weight = 4,41	2016	Feb	85,8	14,2	1,4	0,1	0,0	6,0	6,7
			May	87,8	12,2	1,7	0,1	0,4	7,2	2,7
			Aug	87,8	12,2	1,7	0,9	0,5	6,6	2,5
			Nov	88,3	11,7	1,3	0,6	0,0	6,3	3,6
			Year	87,4	12,6	1,5	0,4	0,2	6,5	3,9
		2017	Feb	83,8	16,2	1,5	0,3	0,0	8,3	6,1
			May	85,7	14,3	1,8	0,4	0,0	7,6	4,5
			Aug	86,0	14,0	2,2	0,3	0,0	7,3	4,3
			Nov	89,0	11,0	1,9	0,3	0,0	6,6	2,1
			Year	86,1	13,9	1,9	0,3	0,0	7,5	4,3
		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

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 = 6,15	2016	Feb	84,0	16,0	3,3	0,7	0,1	9,1	2,8
			May	86,0	14,0	2,2	0,9	0,2	8,8	1,9
			Aug	86,2	13,8	2,4	0,9	0,4	7,7	2,4
			Nov	85,1	14,9	2,6	1,1	0,2	8,7	2,3
			Year	85,3	14,7	2,6	0,9	0,2	8,6	2,3
		2017	Feb	83,6	16,4	2,7	0,9	0,2	10,0	2,6
			May	85,3	14,7	2,1	0,9	0,3	9,0	2,4
			Aug	86,2	13,8	2,2	1,0	0,1	8,8	1,8
			Nov	86,6	13,4	2,5	0,9	0,1	7,6	2,2
			Year	85,4	14,6	2,4	0,9	0,2	8,9	2,3
		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

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 = 1,30	2016	Feb	82,2	17,8	0,5	0,9	0,0	13,6	2,8
			May	84,7	15,3	0,5	0,9	0,0	12,0	2,0
			Aug	84,7	15,3	0,5	0,9	0,0	11,9	2,0
			Nov	85,1	14,9	0,3	0,9	0,0	11,8	2,0
			Year	84,2	15,8	0,5	0,9	0,0	12,3	2,2
		2017	Feb	84,7	15,3	0,5	0,9	0,0	11,9	2,0
			May	83,7	16,3	0,3	2,7	0,0	11,4	2,0
			Aug	83,7	16,3	0,3	3,7	0,0	10,4	2,0
			Nov	83,2	16,8	0,3	3,7	0,0	10,9	2,0
			Year	83,8	16,2	0,4	2,8	0,0	11,2	2,0
		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

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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		
Plastic products	Weight = 2,78	2016	Feb	83,2	16,8	1,1	1,3	0,2	12,1	2,2
			May	82,9	17,1	1,1	1,5	0,2	12,5	1,9
			Aug	83,7	16,3	0,7	1,4	0,2	12,3	1,7
			Nov	85,1	14,9	0,7	1,3	0,2	11,3	1,3
			Year	83,7	16,3	0,9	1,4	0,2	12,1	1,8
		2017	Feb	82,7	17,3	0,7	1,1	0,2	13,8	1,5
			May	82,8	17,2	0,7	1,1	0,2	13,7	1,5
			Aug	83,3	16,7	0,7	1,0	0,3	13,0	1,6
			Nov	85,7	14,3	0,8	1,1	0,3	10,8	1,3
			Year	83,6	16,4	0,7	1,1	0,3	12,8	1,5
		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

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 = 3,53	2016	Feb	81,0	19,0	0,7	0,2	0,0	13,9	4,2
			May	82,0	18,0	0,4	0,2	0,1	12,0	5,3
			Aug	81,7	18,3	0,3	0,3	0,2	11,8	5,7
			Nov	83,7	16,3	0,6	0,2	0,1	12,0	3,4
			Year	82,1	17,9	0,5	0,2	0,1	12,4	4,7
		2017	Feb	79,5	20,5	0,3	0,3	0,0	15,1	4,8
			May	81,3	18,7	0,3	0,1	0,0	14,2	4,1
			Aug	81,3	18,7	0,1	0,0	0,1	14,6	3,9
			Nov	81,8	18,2	0,1	0,2	0,0	14,0	3,9
			Year	81,0	19,0	0,2	0,2	0,0	14,5	4,2
		2018	Feb	80,4	19,6	0,2	0,2	0,0	14,9	4,3
			May	80,5	19,5	0,3	0,1	0,0	14,3	4,8

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 = 0,69	2016	Feb	84,2	15,8	0,0	0,0	0,0	14,7	1,1
			May	87,9	12,1	0,0	0,0	0,0	11,0	1,1
			Aug	86,2	13,8	0,0	0,0	0,0	12,3	1,5
			Nov	84,6	15,4	0,0	0,0	0,0	14,3	1,1
			Year	85,7	14,3	0,0	0,0	0,0	13,1	1,2
		2017	Feb	80,9	19,1	0,0	0,0	0,0	18,0	1,1
			May	82,3	17,7	0,0	0,0	0,0	16,6	1,1
			Aug	85,0	15,0	0,0	0,0	0,0	13,9	1,1
			Nov	86,0	14,0	0,0	0,0	0,0	12,9	1,1
			Year	83,6	16,5	0,0	0,0	0,0	15,4	1,1
		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

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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		
Other non-metallic mineral products	Weight = 2,84	2016	Feb	80,3	19,7	0,8	0,2	0,0	13,7	5,0
			May	80,5	19,5	0,6	0,2	0,1	12,3	6,3
			Aug	80,6	19,4	0,4	0,4	0,2	11,6	6,8
			Nov	83,4	16,6	0,8	0,2	0,1	11,4	4,0
			Year	81,2	18,8	0,7	0,3	0,1	12,3	5,5
		2017	Feb	79,0	21,0	0,4	0,4	0,0	14,5	5,7
			May	81,1	18,9	0,4	0,1	0,0	13,7	4,8
			Aug	80,3	19,7	0,2	0,0	0,1	14,8	4,6
			Nov	80,7	19,3	0,1	0,3	0,1	14,3	4,5
			Year	80,3	19,7	0,3	0,2	0,1	14,3	4,9
		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

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 = 18,74	2016	Feb	77,4	22,6	2,7	1,5	0,2	15,1	3,1
			May	77,1	22,9	2,9	1,5	0,1	15,4	3,0
			Aug	76,7	23,3	2,8	1,6	0,2	14,8	3,9
			Nov	78,6	21,4	2,3	1,4	0,2	14,5	3,0
			Year	77,5	22,6	2,7	1,5	0,2	15,0	3,3
		2017	Feb	77,2	22,8	2,5	1,8	0,2	15,5	2,8
			May	78,2	21,8	3,3	1,7	0,1	14,4	2,3
			Aug	77,2	22,8	2,6	1,3	0,1	16,0	2,8
			Nov	78,6	21,4	2,6	1,2	0,0	15,1	2,5
			Year	77,8	22,2	2,8	1,5	0,1	15,3	2,6
		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

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 = 3,52	2016	Feb	75,7	24,3	5,4	3,4	0,0	11,8	3,7
			May	77,4	22,6	5,2	3,2	0,1	10,0	4,1
			Aug	73,3	26,7	5,0	3,4	0,0	7,9	10,4
			Nov	80,0	20,0	4,4	2,4	0,0	6,8	6,3
			Year	76,6	23,4	5,0	3,1	0,0	9,1	6,1
		2017	Feb	76,8	23,2	6,7	4,1	0,0	8,2	4,2
			May	78,0	22,0	5,9	4,2	0,0	8,8	3,1
			Aug	74,4	25,6	6,3	4,0	0,0	9,3	6,0
			Nov	79,0	21,0	4,9	3,4	0,0	8,6	4,1
			Year	77,1	23,0	6,0	3,9	0,0	8,7	4,4
		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

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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		
Non-ferrous metal products	Weight = 2,60	2016	Feb	78,2	21,8	1,1	0,3	0,0	13,3	7,1
			May	76,4	23,6	1,0	0,2	0,0	16,1	6,4
			Aug	78,8	21,2	0,5	0,2	0,0	14,1	6,4
			Nov	78,9	21,1	0,7	0,4	0,0	14,5	5,5
			Year	78,1	21,9	0,8	0,3	0,0	14,5	6,4
		2017	Feb	76,5	23,5	1,3	0,4	0,0	15,5	6,2
			May	78,3	21,7	1,1	0,3	0,0	16,6	3,6
			Aug	79,0	21,0	1,2	0,3	0,3	14,5	4,8
			Nov	79,9	20,1	1,2	0,3	0,1	13,0	5,5
			Year	78,4	21,6	1,2	0,3	0,1	14,9	5,0
		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

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 = 5,76	2016	Feb	72,5	27,5	3,2	1,6	0,2	18,8	3,7
			May	72,4	27,6	3,0	2,0	0,1	18,9	3,5
			Aug	73,0	27,0	2,5	2,1	0,3	19,4	2,7
			Nov	75,8	24,2	1,8	1,9	0,2	18,2	2,1
			Year	73,4	26,6	2,6	1,9	0,2	18,8	3,0
		2017	Feb	73,6	26,4	2,2	2,0	0,2	19,1	2,9
			May	74,0	26,0	2,3	2,1	0,2	18,1	3,3
			Aug	73,9	26,1	2,2	1,2	0,1	19,8	2,8
			Nov	74,9	25,1	2,4	1,1	0,1	19,0	2,6
			Year	74,1	25,9	2,3	1,6	0,2	19,0	2,9
		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	18,7	3,6

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 = 6,86	2016	Feb	82,5	17,5	1,4	0,8	0,3	14,3	0,8
			May	81,1	18,9	2,4	0,6	0,2	15,1	0,6
			Aug	80,7	19,3	2,8	0,8	0,2	14,9	0,6
			Nov	80,2	19,8	2,3	0,7	0,3	15,4	1,1
			Year	81,1	18,9	2,2	0,7	0,3	14,9	0,8
		2017	Feb	81,2	18,8	1,0	0,8	0,3	16,2	0,6
			May	81,7	18,3	3,7	0,8	0,0	13,4	0,4
			Aug	80,8	19,2	1,5	0,5	0,0	16,9	0,4
			Nov	81,1	18,9	2,2	0,5	0,0	15,9	0,4
			Year	81,2	18,8	2,1	0,7	0,1	15,6	0,5
		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

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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		
Division electrical machinery	Weight = 1,63	2016	Feb	79,8	20,2	1,6	0,4	0,2	16,9	1,1
			May	80,2	19,8	1,4	0,6	0,3	16,3	1,3
			Aug	79,5	20,5	1,2	0,3	0,1	18,2	0,7
			Nov	79,9	20,1	1,2	0,6	0,1	17,2	1,0
			Year	79,9	20,2	1,4	0,5	0,2	17,2	1,0
		2017	Feb	80,1	19,9	1,3	0,7	0,4	16,0	1,6
			May	79,0	21,1	1,3	1,0	0,4	17,3	1,0
			Aug	79,9	20,1	1,2	1,0	0,5	16,5	1,0
			Nov	81,1	18,9	1,1	1,0	0,2	16,3	0,3
			Year	80,0	20,0	1,2	0,9	0,4	16,5	1,0
		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

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 = 1,59	2016	Feb	84,3	15,7	1,1	0,0	0,0	14,2	0,4
			May	85,4	14,6	1,0	0,0	0,0	13,2	0,4
			Aug	85,7	14,3	0,9	0,0	0,0	13,2	0,2
			Nov	85,5	14,5	0,9	0,0	0,0	13,4	0,2
			Year	85,2	14,8	1,0	0,0	0,0	13,5	0,3
		2017	Feb	84,2	15,8	1,0	0,0	0,0	14,4	0,4
			May	86,4	13,6	0,5	0,0	0,0	12,8	0,3
			Aug	85,0	15,0	1,1	0,0	0,0	13,5	0,4
			Nov	86,0	14,0	1,0	0,0	0,0	12,6	0,4
			Year	85,4	14,6	0,9	0,0	0,0	13,3	0,4
		2018	Feb	84,8	15,2	0,8	0,0	0,0	13,9	0,5
			May	82,1	17,9	1,1	0,0	0,0	16,3	0,5

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		
Radio, television and communication apparatus	Weight = 0,92	2016	Feb	82,4	17,6	0,2	0,0	0,0	17,0	0,4
			May	85,2	14,8	0,2	0,0	0,0	14,2	0,4
			Aug	85,3	14,7	0,1	0,0	0,0	14,6	0,1
			Nov	84,0	16,0	0,1	0,0	0,0	15,7	0,2
			Year	84,2	15,8	0,2	0,0	0,0	15,4	0,3
		2017	Feb	82,7	17,3	0,1	0,0	0,0	16,8	0,3
			May	85,8	14,2	0,1	0,0	0,0	13,9	0,2
			Aug	86,6	13,4	0,1	0,0	0,0	13,0	0,3
			Nov	85,2	14,8	0,2	0,0	0,0	14,2	0,4
			Year	85,1	14,9	0,1	0,0	0,0	14,5	0,3
		2018	Feb	82,9	17,1	0,3	0,0	0,0	16,3	0,6
			May	81,9	18,1	0,3	0,0	0,0	17,3	0,6

1/ Data for the latest two months are preliminary.

* Revised due to reweighting. See note on page 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		
Professional equipment	Weight = 0,67	2016	Feb	86,9	13,1	2,4	0,0	0,0	10,4	0,3
			May	85,9	14,1	2,1	0,0	0,0	11,7	0,3
			Aug	86,2	13,8	2,1	0,0	0,0	11,4	0,3
			Nov	87,3	12,7	2,1	0,0	0,0	10,3	0,3
			Year	86,6	13,4	2,2	0,0	0,0	11,0	0,3
		2017	Feb	86,5	13,5	2,1	0,0	0,0	11,0	0,4
			May	87,3	12,7	1,0	0,0	0,0	11,3	0,4
			Aug	82,8	17,2	2,5	0,0	0,0	14,3	0,4
			Nov	87,1	12,9	2,1	0,0	0,0	10,4	0,4
			Year	85,9	14,1	1,9	0,0	0,0	11,8	0,4
		2018	Feb	87,3	12,7	1,5	0,0	0,0	10,7	0,4
			May	82,4	17,6	2,2	0,0	0,0	14,9	0,4

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		
Division motor vehicles, parts and accessories and other transport equipment	Weight = 7,20	2016	Feb	82,2	17,8	1,3	1,0	0,1	11,9	3,5
			May	81,8	18,2	0,9	1,0	0,1	12,3	3,9
			Aug	82,9	17,1	1,2	1,2	0,2	12,4	2,1
			Nov	82,4	17,6	0,9	1,1	0,0	13,1	2,5
			Year	82,3	17,7	1,1	1,1	0,1	12,4	3,0
		2017	Feb	80,4	19,6	1,1	1,4	0,2	14,7	2,2
			May	81,2	18,8	0,8	1,4	0,2	14,6	1,8
			Aug	84,3	15,7	0,9	1,1	0,2	12,1	1,4
			Nov	83,3	16,7	0,9	1,1	0,2	12,0	2,5
			Year	82,3	17,7	0,9	1,3	0,2	13,4	2,0
		2018	Feb	82,3	17,7	1,4	1,3	0,1	12,5	2,4
			May	84,0	16,0	1,0	1,1	0,2	11,5	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		
Motor vehicles, trailers and parts and accessories	Weight = 5,97	2016	Feb	82,7	17,3	1,3	0,3	0,1	11,9	3,8
			May	82,5	17,5	0,9	0,3	0,0	12,3	4,0
			Aug	84,3	15,7	1,3	0,4	0,1	12,2	1,7
			Nov	83,9	16,1	1,0	0,3	0,1	12,1	2,6
			Year	83,4	16,7	1,1	0,3	0,1	12,1	3,0
		2017	Feb	82,3	17,7	1,2	0,4	0,2	13,4	2,5
			May	82,8	17,2	1,0	0,4	0,1	13,7	2,1
			Aug	85,4	14,6	1,1	0,3	0,2	11,5	1,6
			Nov	84,1	15,9	1,0	0,2	0,1	11,6	2,9
			Year	83,7	16,4	1,1	0,3	0,2	12,6	2,3
		2018	Feb	83,6	16,4	1,6	0,4	0,0	11,6	2,8
			May	84,9	15,1	1,1	0,3	0,0	11,3	2,5

1/ Data for the latest two months are preliminary.

* Revised due to reweighting. See note on page 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		
Other transport equipment	Weight = 1,23	2016	Feb	80,1	19,9	1,2	4,6	0,4	11,6	2,1
			May	77,9	22,1	1,2	4,6	0,4	12,3	3,7
			Aug	76,3	23,7	0,4	5,0	0,8	13,5	4,0
			Nov	75,3	24,7	0,4	4,6	0,0	17,7	2,1
			Year	77,4	22,6	0,8	4,7	0,4	13,8	3,0
		2017	Feb	71,4	28,6	0,6	6,4	0,0	21,0	0,6
			May	73,6	26,4	0,0	6,4	0,6	18,8	0,6
			Aug	79,1	20,9	0,0	5,0	0,4	14,9	0,6
			Nov	79,5	20,5	0,4	5,0	0,8	13,7	0,6
			Year	75,9	24,1	0,3	5,7	0,5	17,1	0,6
		2018	Feb	76,2	23,8	0,4	5,9	0,2	16,7	0,6
			May	80,6	19,4	0,4	5,0	0,8	12,6	0,6

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 furniture and other manufacturing industries	Weight = 3,22	2016	Feb	79,0	21,0	1,6	0,1	1,1	16,9	1,3
			May	77,5	22,5	1,8	0,2	1,3	18,1	1,1
			Aug	79,8	20,2	1,8	0,6	1,2	15,7	0,9
			Nov	83,2	16,8	1,8	0,7	0,6	12,9	0,8
			Year	79,9	20,1	1,8	0,4	1,1	15,9	1,0
		2017	Feb	80,6	19,4	1,9	0,8	0,7	15,1	0,9
			May	81,5	18,5	1,5	0,2	1,2	14,7	0,9
			Aug	80,5	19,5	1,4	0,2	1,1	15,9	0,9
			Nov	82,6	17,4	1,5	0,1	1,2	13,4	1,2
			Year	81,3	18,7	1,6	0,3	1,1	14,8	1,0
		2018	Feb	80,7	19,3	1,7	0,7	0,7	15,3	0,9
			May	78,9	21,1	1,7	0,6	0,6	12,2	6,0

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 = 1,08	2016	Feb	77,6	22,4	0,8	0,0	1,5	20,2	0,0
			May	79,4	20,6	1,0	0,0	2,0	17,7	0,0
			Aug	80,2	19,8	1,3	1,3	1,5	15,7	0,0
			Nov	88,6	11,4	0,8	0,0	1,5	9,1	0,0
			Year	81,5	18,6	1,0	0,3	1,6	15,7	0,0
		2017	Feb	83,0	17,0	1,0	0,0	2,0	14,0	0,0
			May	84,9	15,1	0,8	0,0	1,5	12,8	0,0
			Aug	86,7	13,3	0,8	0,0	1,5	11,1	0,0
			Nov	87,0	13,0	0,8	0,0	1,5	9,7	1,0
			Year	85,4	14,6	0,9	0,0	1,6	11,9	0,3
		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

1/ Data for the latest two months are preliminary.

* Revised due to reweighting. See note on page 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		
Other manufacturing groups including tobacco products	Weight = 2,14	2016	Feb	79,6	20,4	2,1	0,2	0,9	15,3	2,0
			May	76,7	23,3	2,2	0,3	1,0	18,3	1,6
			Aug	79,6	20,4	2,0	0,2	1,0	15,8	1,4
			Nov	80,4	19,6	2,3	1,0	0,2	14,9	1,3
			Year	79,1	20,9	2,2	0,4	0,8	16,1	1,6
		2017	Feb	79,5	20,5	2,3	1,2	0,1	15,6	1,3
			May	79,9	20,1	1,8	0,3	1,0	15,7	1,3
			Aug	77,3	22,7	1,8	0,3	0,9	18,4	1,3
			Nov	80,3	19,7	1,9	0,2	1,0	15,3	1,3
			Year	79,3	20,8	2,0	0,5	0,8	16,3	1,3
		2018	Feb	79,0	21,0	2,1	1,0	0,1	16,4	1,3
			May	75,3	24,7	2,1	1,0	0,1	12,5	9,0

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	2016	Feb	81,1	18,9	2,0	1,0	0,2	11,4	4,3
			May	81,4	18,6	2,0	1,0	0,2	11,2	4,2
			Aug	82,1	17,9	2,0	1,0	0,3	10,5	4,1
			Nov	82,7	17,3	1,8	1,0	0,2	10,5	3,8
			Year	81,8	18,2	2,0	1,0	0,2	10,9	4,1
		2017	Feb	80,5	19,5	2,0	1,1	0,2	11,9	4,3
			May	80,8	19,2	2,0	1,0	0,2	11,8	4,2
			Aug	81,6	18,4	2,0	1,0	0,2	11,5	3,7
			Nov	82,9	17,1	1,7	1,0	0,3	10,7	3,4
			Year	81,5	18,6	1,9	1,0	0,2	11,5	3,9
		2018	Feb	80,5	19,5	1,9	1,0	0,2	11,7	4,7
			May	80,6	19,4	2,1	1,0	0,2	11,5	4,6

1/ Data for the latest two months are preliminary.

* Revised due to reweighting. See note on page 4.

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 - • the manufacturing, processing, making or packing of products; • the slaughtering of animals, including poultry; and • installation, assembly, completion, repair and related work.
	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 2018 was 78,9%. Improved collection rate for February 2018 was 77,1%.
Survey methodology and design	7	The survey is collected by fax 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. Fax 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 on the basis of 2016 national accounts 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 on the basis of 2016 national accounts value added data.

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	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</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.
Output	Output is the aggregate value of goods manufactured and work done and includes: • 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 Output excludes excise and customs duty paid.
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		
	2014 (based on value added for 2013 – 2014)	2015 (based on value added for 2013 – 2015)	2016 – 2018 (based on value added for 2014 – 2016)
Food and beverages	24,72	25,15	25,78
Meat, fish, fruit, etc.	6,26	6,39	6,59
Dairy products	1,84	1,89	2,00
Grain mill products	2,75	2,86	3,12
Other food products	7,61	7,62	7,74
Beverages	6,26	6,39	6,33
Textiles, clothing, leather and footwear	3,33	3,28	3,21
Textiles	0,86	0,83	0,80
Other textile products	0,40	0,41	0,41
Knitted, crocheted articles	0,09	0,09	0,09
Wearing apparel	1,12	1,10	1,08
Leather and leather products	0,50	0,49	0,48
Footwear	0,36	0,36	0,35
Wood and wood products, paper, publishing and printing	11,73	11,62	11,28
Sawmilling and planing of wood	1,70	1,71	1,69
Products of wood	2,29	2,37	2,42
Paper and paper products	4,44	4,33	4,09
Publishing	1,52	1,49	1,45
Printing, recorded media	1,78	1,72	1,63
Petroleum, chemical products, rubber and plastic products	24,04	24,01	23,82
Coke, petroleum products and nuclear fuel	9,34	9,29	9,18
Basic chemicals	4,26	4,36	4,41
Other chemical products	6,11	6,16	6,15
Rubber products	1,37	1,34	1,30
Plastic products	2,96	2,86	2,78
Glass and non-metallic mineral products	4,14	3,90	3,53
Glass and glass products	0,78	0,74	0,69
Non-metallic mineral products	3,36	3,16	2,84
Basic iron and steel, non-ferrous metal products, metal products and machinery	18,69	18,72	18,74
Basic iron and steel products	3,27	3,44	3,52
Non-ferrous metal products (including precious metals)	2,93	2,73	2,60
Structural metal products	1,83	1,86	1,92
Other fabricated metal products	3,86	3,86	3,84
General purpose machinery	2,46	2,51	2,57
Special purpose machinery	3,52	3,51	3,50
Household appliances	0,82	0,81	0,79
Electrical machinery	1,65	1,65	1,63
Radio, television and communication apparatus and professional equipment	1,63	1,61	1,59
Radio, television and communication apparatus	0,96	0,93	0,92
Professional equipment	0,67	0,68	0,67
Motor vehicles, parts and accessories and other transport equipment	6,91	6,86	7,20
Motor vehicles	2,44	2,43	2,60
Bodies for motor vehicles, trailers and semi-trailers	0,49	0,46	0,48
Parts and accessories	2,78	2,76	2,89
Other transport equipment	1,20	1,21	1,23
Furniture and other manufacturing	3,16	3,20	3,22
Furniture	1,07	1,09	1,08
Other manufacturing groups	2,09	2,11	2,14
Total	100	100	100

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You can visit us on the internet at: www.statssa.gov.za

General enquiries

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