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Manufacturing: Production and sales

December 2003

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Key figures as at the end of December 2003

and	December 2002 and October 2003 to December 2003	December 2002 and January 2003 to December 2003
-20,8	-3,0	-2,3
12.0	2.5	0.0
	and 03 December 2003	03 December 2003 October 2003 to December 2003 -20,8 -3,0

Seasonally adjusted estimates	December 2003	% change between December 2002 and December 2003	% change between November 2003 and December 2003	% change between July 2003 to September 2003 and October 2003 to December 2003
Physical volume of manufacturing production index (2000=100)	104,9	-2,0	+1,2	-0,8
Total value of sales of manufactured products (R million)	51 657,2	+0.9	+3,5	-1.3

Key findings for the year 2003

Manufacturing production decreases

Manufacturing production for the year 2003 reflected a decrease of 2,3% compared with the year 2002. Lower production was reported by 19 of the 27 manufacturing divisions.

The major contributor to the annual decrease of 2,3% was the basic chemicals division (contributing -0,5 of percentage points to total manufacturing production), followed by the textiles (-0,4 of a percentage point), other chemical products (-0,3 of a percentage point) and paper and paper products (-0,2 of a percentage point) divisions. However, these decreases were partially counteracted by an increase reported by the basic iron and steel products division (contributing +0,2 of a percentage point).

Sales of manufactured products remain unchanged

The total value of sales of manufactured products at current prices for the year 2003 compared with the year 2002 remained unchanged. Increases in manufacturing sales were reported by 10 of the 27 manufacturing divisions.

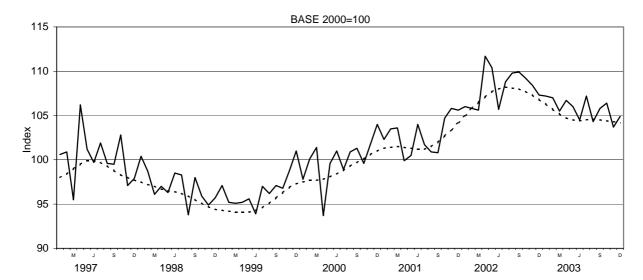
The largest increases were reported by the beverage (+11,5% or +R3 094 million), publishing and printing (+9,4% or +R1 304 million), basic iron and steel products (+7,8 % or +R3 781 million), machinery and equipment (+6,1% or +R1 655 million) and fabricated metal products (+3,0% or +R1 017 million) divisions. However, these increases were counteracted by large decreases reported by the coke and refined petroleum products (-18,1% or -R8 215 million), basic precious and non-ferrous metal products (-12,6% or -R2 743 million), basic chemicals (-5,7% or -R1 796 million) and motor vehicles, trailers and parts and accessories (-2,4% or -R1 891 million) divisions.

Key findings as at the end of December 2003

Manufacturing production decreases

Manufacturing production for the fourth quarter of 2003 reflected a decrease of 0,8%, after seasonal adjustment, compared with the third quarter of 2003. Lower production was reported by 14 of the 27 manufacturing divisions.

The major contributor to the decrease of 0,8% in the total manufacturing production, after seasonal adjustment, was the food and food products (contributing -0,7 of a percentage point to total manufacturing production), motor vehicles, trailers and parts and accessories (contributing -0,6 of a percentage point), machinery and equipment (contributing -0,3 of a percentage point) and 'other' manufacturing industries (contributing -0,3 of a percentage point) divisions. However, these decreases were partially counteracted by a large increase reported by the basic iron and steel products (contributing +0,8 of a percentage point) division (see table A).



Year

Seasonally adjusted ---- Trend cycle

Figure 1 – Index of the physical volume of manufacturing production

Table A - Contribution of the production by the different manufacturing divisions to the total manufacturing production (Base 2000=100)

Manufacturing divisions	Percentage contribution to the total manufacturing production using the weights according to 1996 Census of Manufacturing	Average seasonally adjusted production index for the three months October 2003 to December 2003	preceding three months	Contribution (percentage points) to the seasonally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	98,7	-6,2	-0,7
Beverages	4,6	115,9	-0,7	-0,1
Total textiles	2,9	89,6	-2,5	-0,1
Total wearing apparel	3,6	97,9	-0,1	-0,0
Tanning and dressing of leather		94,4	-3,2	-0,0
Footwear	0,9	75,3	-4,9	-0,1
Wood and products of wood	1,9	110,1		+0,1
Paper and paper products	5,3	101,9		+0,2
Total publishing and printing	4,1	104,5	+4,7	+0,2
Coke and refined petroleum	4 0	100 4	2 4	
products	4,2	102,4	-3,4	-0,1
Basic chemicals	4,5	103,0		-0,1
Other chemical products	6,2	107,4		+0,1
Rubber products Plastic products	1,4 3,1	94,7		-0,1
Glass and glass products	!	123,1	•	+0,1
Other non-metallic mineral	1,0	120,3	+0,1	+0,0
products	3,5			+0,2
Basic iron and steel products	7,6	112,6	+10,6	+0,8
Basic precious and non-ferrous				
metal products	3,2	102,4	+2,1	+0,1
Fabricated metal products	7,0	110,1		-0,1
Total machinery and equipment	5,8	117,1	-5,5	-0,3
Electrical machinery, apparatus Radio, television and	3,4	102,3	-3,4	-0,1
communication apparatus	1,0	91,2	+15,4	+0,1
Professional equipment	0,5	125,3	+8,7	+0,0
Motor vehicles; trailers;				
parts and accessories	8,0	105,1	-7,7	-0,6
Other transport equipment	1,0	103,1	•	+0,0
Furniture	1,6	108,1	+0,4	+0,0
Other manufacturing divisions	2,6	82,3	-10,5	-0,3
Total	100,0	105,0	-0,8	-0,8

^{1/} The contribution is calculated by multiplying the quarterly percentage change of each manufacturing division with its corresponding weight in the base year, divided by 100.

Sales of manufactured products decrease

The total value of sales of manufactured products at current prices for the fourth quarter of 2003 reflected a decrease of 1,3% (-R1 940 million), after seasonal adjustment, compared with the third quarter of 2003. Lower manufacturing sales were reported by 12 of the 27 manufacturing divisions during this period (see table B). Furthermore, the actual value of sales of manufactured products at current prices for fourth quarter 2003 reflected a decrease of 3,5% compared with the fourth quarter of 2002. Lower manufacturing sales were reported by 17 of the 27 manufacturing divisions during this period (see table C).

The increase of 1,3% after seasonal adjustment in the total value of sales of manufactured products at current prices for the fourth quarter of 2003 compared with the third quarter of 2003 was mainly due to large decreases reported by the basic iron and steel products (-7,9% or -R1 051 million), basic precious and non-ferrous metal products (-7,5% or -R366 million), motor vehicles, trailers and parts and accessories (-3,7% or -R746 million) and food and food products (-2,5% or -R528 million) divisions (see table B).

Table B - Contribution of the manufacturing divisions to the total value of seasonally adjusted sales of manufactured products

Manufacturing	ad:	sonal juste	-	Percent	e	Differe	nally
divisions		ales		betwe		adjus	
	Octob		2003	July 2		sales	
		0	2002	to		manufac	_
	Decei	liber	2003	September	2003	divis betw	
				October	2003		7 2003
				to	2005	! -	2003
				December	2003		
	İ						nd
	į			İ		Octob	oer 200
						t	0
							per 200
	I	R'000)			R'	000
Food and food products	20	392	647	-2,5		-527	631
Beverages	7	839	344	+3,4		254	
Total textiles	!	949		-2,5		-75	
Total wearing apparel	3	268		+0,3			789
Tanning and dressing of leather			545	-11,0		-88	
Footwear			906	+5,7			254
Wood and products of wood Paper and paper products		294 575		-0,8 +3,0		-25 219	
Total publishing and printing	!	942		+1,7		65	
Coke and refined petroleum		712	217	11,7		03	<i>J J J</i>
products	8	720	196	-3,2		-287	698
Basic chemicals		222		-3,2		-239	
Other chemical products	9	190	112	+0,3			750
Rubber products	1	721	236	+2,8		46	321
Plastic products	4	101	372	+4,0		156	318
Glass and glass products		828	585	-6,6		-58	715
Other non-metallic mineral							
products	!	984		+7,8		289	
Basic iron and steel products	12	292	341	-7,9		-1 050	534
Basic precious and non-ferrous	4	527	071	-7,5		266	075
metal products Fabricated metal products	!	710		-7,5 -1,5		-366 -131	
Total machinery and equipment	!	404		+1,6		118	
Electrical machinery, apparatus	!	320		-1,8		-81	
Radio, television and	-	220	J , <u>J</u>	1,0		31	_01
communication apparatus	1	466	618	+23,4		278	109
Professional equipment			547	+9,1			590
Motor vehicles; trailers;	į						
parts and accessories	19	463		-3,7		-745	
Other transport equipment			243	+2,6			345
Furniture	!	910		+1,7			811
Other manufacturing industries	_ 4	634	384	+3,2		143	764
Total	152	575	907	-1,3		-1 939	817

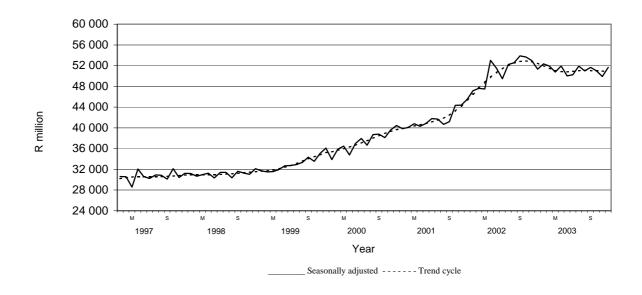
The major contributors to the decrease of 3,5% in the actual value of sales of manufactured products at current prices for the fourth quarter of 2003 compared with the fourth quarter of 2002 were the coke and refined petroleum products (-1,7 percentage points or -R2 774 million), food and food products (-0,7 of a percentage point or -R1 190 million), basic precious and non-ferrous metal products (-0,7 of a percentage point or -R1 123 million) and motor vehicles, trailers, parts and accessories (-0,5 of a percentage point or -R865 million) divisions. However, these decreases were partially counteracted by an increase reported by the beverage division (+0,6 of a percentage point or +R980 million) (see table C).

Table C - Contribution of the manufacturing divisions to total value of sales of manufactured products

Manufacturing	Percentage contribution	Percentage change	Contribution (percentage	Difference in sales of
divisions	to total value	between	points)	manufacturin
	of sales of	October 2002	to the	divisions
	manufactured	to	percentage	between
	products	December 2002		October 2002
	October 2002	and October 2003	the total value of	to December 200
	December 2002	to	value of sales of	and
	December 2002	December 2003		
			products 1/	to
				December 200
				R'000
Food and food products	13,9	-5,2	-0,7	-1 189 723
Beverages	5,1	11,6	0,6	980 483
Total textiles	2,1	-14,6	-0,3	-502 654
Total wearing apparel	2,2	-1,6	-0,0	-56 199
Tanning and dressing of leather Footwear	0,5 0,4	-12,3 -6,9	-0,1 -0,0	-103 045 -44 148
Wood and products of wood	2,1	-0,9 -2,5	-0,0	-87 415
Paper and paper products	4,5	2,7	0,1	198 291
Total publishing and printing	2,4	8,9	0,2	346 330
Coke and refined petroleum	_,_	- , -	- / -	
products	7,1	-23,5	-1,7	-2 773 668
Basic chemicals	5,0	-7,0	-0,4	-583 033
Other chemical products	5,8	0,8	0,0	76 319
Rubber products	1,1	-4,6	-0,1	-81 178
Plastic products	2,5	2,6	0,1	108 799
Glass and glass products	0,6	-1,1	-0,0	-10 551
Other non-metallic mineral products	1 2	4.2	0 1	164 065
Basic iron and steel products	2,3 7,8	4,3 -1,8	0,1 -0,1	164 065 -228 839
Basic precious and non-ferrous	7,0	-1,0	-0,1	-220 039
metal products	3,7	-18,5	-0,7	-1 123 465
Fabricated metal products	5,6	-4,1	-0,2	-378 604
Total machinery and equipment	4,4	4,3	0,2	311 981
Electrical machinery, apparatus	2,7	-2,9	-0,1	-130 217
Radio, television and				
communication apparatus	0,7	15,1	0,1	183 007
Professional equipment	0,3	2,1	0,0	11 118
Motor vehicles; trailers;			0 =	0.55 0.55
parts and accessories	12,3	-4,3	-0,5	-865 228
Other transport equipment	0,7	-11,3	-0,1	-124 094
Furniture Other manufacturing divisions	1,3 2,9	-1,6 2,3	-0,0 0,1	-34 288 110 331
manuracturing divisions		2,3		110 331
Total	100,0	-3,5	-3,5	-5 825 625

^{1/} The contribution (percentage points) is calculated by multiplying the percentage change of each manufacturing division with the percentage contribution of the same division during corresponding period, divided by 100.

Figure 2 - Total value of sales of manufactured products at current prices



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Notes

Forthcoming issues	Issue	Expected release date
	January 2004	9 March 2004
	February 2004	6 April 2004
	March 2004	11 May 2004
	April 2004	8 June 2004
	May 2004	6 July 2004
	June 2004	10 August 2004
Purpose of the survey	private establishments manufacturing industr calculate physical vol	cturing Production and Sales survey is a survey covering a sample of s, public corporations and government establishments operating in the ry in the South African economy. The results of this survey are used to ume of manufacturing production indices in order to estimate the Gross DP) to monitor and develop government policy.
Response rates		the survey on manufacturing production and sales for November 2003 was aber 2003 it was 70,1 %.

Table 1 - Indices of the physical volume of manufacturing production: Total

					-		
Month	1997	1998	1999	2000	2001	2002	2003
				Actual indices			
J	85,3	85,8	83,6	85,2	89,5	92,7	93,6
F	99,1	97,2	93,7	98,7	102,0	104,5	105,5
M	98,4	98,9	97,9	104,8	107,3	109,6	109,4
A	100,9	92,3	90,7	89,0	94,6	105,3	100,7
M	101,7	96,8	95,9	99,9	100,8	110,7	106,0
J	100,9	99,6	94,8	102,1	105,0	106,7	105,6
J	103,9	99,9	98,3	100,1	102,7	109,9	107,9
A i	101,9	95,6	97,7	102,5	102,6	111,9	106,3
s i	104,3	102,3	100,9	104,8	104,0	113,1	108,8
0	115,2	106,9	107,3	109,8	115,5	120,6	117,7*
N	107,9	105,5	109,9	113,6	118,1	121,1	115,3
D	83,5	81,8	86,3	89,5	91,3	92,6	91,3 1/
Year	100,3	96,9	96,4	100,0	102,8	108,2	105,7

J	100,6	100,4	97,1	97,8	102,3	106,0	107,3
F	100,9	98,7	95,2	100,1	103,5	105,8	107,0
M	95,5	96,1	95,1	101,4	103,6	105,6	105,5
A	106,2	97,0	95,2	93,7	99,9	111,8	106,7
M	101,2	96,4	95,6	99,6	100,5	110,5	106,0
J	99,7	98,5	94,0	101,1	104,2	106,0	104,8
J	101,9	98,3	97,0	98,9	101,7	108,8	107,2
A	99,6	93,8	96,2	101,0	100,9	109,8	104,4
S	99,5	98,0	97,0	101,2	100,7	109,8	105,8
0	102,8	95,9	96,7	99,4	104,5	109,0	106,4
N	97,1	94,8	98,7	101,9	105,7	108,4	103,7
D	97,8	95,6	100,9	103,9	105,4	107,0	104,9

Table 2 - Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups

Base 2000 = 100

				00 = 100				
Manufacturing	 			ual indice		Seasonal:	ly adjusted	d indices
divisions	 Weights	Year						
and major groups	 	2003			December1/			December
			2002	20	003	2002	2003	3
Food and food products Meat, fish, fruit etc.	10,7	101,6	100,3	108,7	93,3 111,8 104,5 106,3 71,7 146,1 55,7 46,0 69,4 77,1 65,5 79,4 71,8 61,1 88,6 94,3 84,8 98,5 94,0 95,4 93,2	100,9	98,2	93,9
Meat, fish, fruit etc.	2,8	115,5	115,1	119,7	111,8	114,6	114,1	111,7
Dairy products	1,4	96,6	112,1	105,6	104,5	103,8	95,5	96,9
Grain mill products	2,1	108,2	107,3	106,4	106,3	109,3	101,2	108,4
Other food products Beverages	4,4	1115 0	83,9 140.1	103,8	116 1	87,3 100 0	87,3	115 0
Total textiles	2 9	95 7	1 70 1	98 6	55 7	109,9	84 2	84 4
Textiles	1.7	91.7	70.3	84.2	46.0	111.0	75.1	72.7
Other textile products Total wearing apparel	1,2	101,4	69,9	118,9	69,4	101,3	97,0	100,9
Total wearing apparel	3,6	99,0	79,0	109,6	77,1	103,0	89,1	99,8
Knitted, crocheted articles	0,6	100,4	85,2	112,3	65,5	122,9	96,8	94,5
Wearing apparel	3,0	98,7	77,8	109,1	79,4	99,0	87,6	100,9
Tanning and dressing of leather	0,4	91,3	71,9	102,2	71,8	91,4	92,7	90,9
Footwear	0,9	75,3	65,0	86,3	61,1	82,0	72,3	76,3
Wood and products of wood	1,9	109,2	85,6	115,6	88,6	115,6	101,7	119,8
Sawmilling and planing of wood	0,8	112,2	80,5	119,1	94,3	113,8	111,2	133,3
Products of wood	1,2	107,3	89,0	113,3	84,8	116,7	95,5	110,9
Paper and paper products	5,3	99,1	86,5	107,0	98,5	92,1	101,5	105,3
Total publishing and printing Publishing	4,1 1.5	99,9	81,0 00.7	120,1	94,0	90,9	103,0	106,3
Printing, recorded media	1 2 6	1102 2	09,7	120 4	95,4	92,2 90.2	102,5	110 0
Coke and refined petroleum	2,0 	102,2	/0,±	120,4	93,2] 90,2 	103,2	110,9
products	4.2	102,1	105.6	108.9	106,9 101,9 92,5 54,3 101,6 116,9	99.4	105.9	100.1
Basic chemicals		105,7	107.2	108.1	101.9	112.1	96.5	107.2
Other chemical products	6,2		95,0	119,4	92,5	110,8	105,6	107,7
Rubber products		98,3	56,2	105,0	54,3	96,6	93,1	95,1
Plastic products	3,1	121,4	97,0	136,8	101,6	121,0	119,9	126,5
Glass and glass products	1,0	117,9	109,5	132,3	116,9	118,2	117,3	125,2
Other non-metallic mineral								
products		99,5			78,8	116,1	98,0 111,0	102,4
Basic iron and steel products		109,4	103,7	116,0	105,0	115,1	111,0	115,8
Basic precious and non-ferrous								
metal products		100,9	88,2	107,3	94,1 83,0 70,6 89,3 102,3 90,0 117,7 66,8 80,3	92,7	104,4	106 1
Fabricated metal products Structural metal products		113,9	95,2 97.2	120,7	83,0	121,1 121 0	111,6	106,1
Other fabricated metal product			97,3	131 2	70,6 89.3	121,0	116 7	114 9
Total machinery and equipment			106.7	122.7	102.3	121.6	118.2	116.7
General purpose machinery	2,5		94.1	111.6	90.0	107.6	110.3	102.4
			121,0	132,9	117,7	134,4	127,9	131,9
Special purpose machinery Household appliances	0,4	104,2	81,5	118,8	66,8	117,0	96,4	96,4
Electrical machinery, apparatus			83,4	117,6	80,3	105,0	105,2	100,9
Radio, television and	İ	ĺ	İ					
communication apparatus	1,0			90,7 120,7	91,7	81,0	91,3	100,5
Professional equipment	0,5	122,9	109,6	120,7	111,5	129,4	119,6	130,8
Motor vehicles; trailers;		ļ						
parts and accessories	8,0			116,4	70,6 61,8	103,4	103,3 97,3	104,9
Motor vehicles	4,5	101,5	68,6	111,2	61,8	101,0	97,3	91,2
Bodies for motor vehicles;		1105 6	00.7	110 0	00 5	104.2	00.4	110 0
trailers and semi-trailers	0,5	1110 0	82,7	118,8	89,5	104,2	98,4	110,9
Parts and accessories	J 3,U	1119,2	58,8	1⊿3,9 1∩2 2	8U,4	100,8 117.4	105 2	124,5
Other transport equipment Furniture	1,0 1,6	1103 0	1 70,9 1 72 0	135 0	83 Q	1 106 0	105,3	122 0
Other manufacturing divisions	2,6	95,5	63,4	109,0	89,5 80,4 80,1 83,9 48,7	99,2	86,1	69,7
Total					91,3		103,7	
				•	•		•	

^{*} Revised 1/ Preliminary

Table 3 - Value of sales of the manufacturing industry: Total (R'000)

Month	1	997		1	1998		19	999		:	2000			2001		:	2002		:	2003	
										Actua	l va	Lues									
J	25	254	480	25	913	926	26	362	762	28	647	234	33	988	164	40	286	441	44	443	867
F	29	866	793	29	901	544	30	551	283	34	961	840	39	187	078	46	552	386	50	811	316
M	29	866	272	32	190	538	32	737	212	38	039	203	42	683	525	49	232	865	52	681	625
A	30	438	604	29	758	879	30	447	208	32	651	220	37	828	090	49	747	946	49	112	612
M	30	626	091	30	352	835	32	680	898	37	038	716	41	146	142	51	664	800	50	198	782
J	30	575	542	31	723	893	33	054	424	38	710	074	42	743	527	50	265	064	50	924	204
J	31	169	707	31	732	667	33	262	293	36	234	329	41	174	318	51	869	128	51	417	699*
A	31	400	042	30	810	619	33	586	437	38	992	758	41	164	534	53	370	193	51	726	854*
s	31	344	644	32	896	327	35	703	435	39	916	972	42	295	572	55	277	787	52	953	083*
0	35	902	602	34	970	472	37	386	689	41	775	594	48	601	886	58	802	690	55	976	104*
N	33	709	581	34	300	610	38	843	424	43	881	507	49	478	825	59	010	832	55	512	082
D	28	128	922	29	016	347	32	992	528	37	256	576	42	207	610	47	372	378	47	872	089 1/
Year	368	283	280	373	568	657	397	608	593	448	106	023	502	499	271	613	451	718	613	630	317
										Season	ally	adjı	usted	valı	ıes						
J I	30	 489	454	31	039	575	31	387	394	33	821	013	39	672	854	47	142	156	52	267	997
F	30	509	898	30	605	689	31	328	810	35	766	888	40	036	593	47	589	519	51	838	382
М	28	718	606	30	980	388		563		36	573	297	41	118	447	47	529	371	50	829	722
A	32	086	310	31	467	850	32	267	199	34	663	422	40	177	042	53	027	425	52	203	074
M	30	715	816	30	392	991	32	709	620	36	965	225	40	999	143	51	482	469	49	978	155
Jİ	30	220	408	31	259	865	32	569	877	38	056	123	42	079	464	49	594	055	50	344	199
J	31	169	595	31	856	001	33	511	094	36	558	826	41	544	594	52	289	671	51	921	701
A	30	753	486	30	342	308	33	192	472	38	517	416	40	585	730	52	532	684	50	937	258
s	30	161	547	31	762	259	34	605	786	38	709	574	41	117	088	53	816	873	51	656	764
0	32	173	162	31	393	197	33	764	219	38	042	077	44	304	043	53	641	345	51	015	295
N	30	323	048	30	805	392	34	832	353	39	505	120	44	364	449	53	024	704	49	903	458
D	30	817	770	31	424	070	35	768	360	40	293	826	45	268	989	51	172	992	51	657	153

^{*} Revised 1/ Preliminary

Table 4 - Value of sales of manufactured products according to manufacturing divisions and major groups (R'000)

Actual values Seasonally adjusted values Manufacturing Year December | November | December 1/ | December | November | December divisions and major groups 2003 2002 2003 2002 2003 7 378 923 7 274 926 7 221 651 2 419 253 2 306 195 2 369 050 884 728 859 174 909 458 2 168 179 1 925 957 1 928 516 7 133 285 6 622 156 6 957 847 2 291 556 2 129 377 2 235 767 820 763 775 309 839 089 2 134 666 1 878 637 1 899 263 1 886 300 2 260 896 1 171 232 Other food products 23 066 182 30 006 536 1 906 763 3 276 966 2 183 600 2 898 935 2 014 627 1 838 833 2 588 281 983 3 813 962 2 633 585 Beverages 12 433 132 7 892 173 Total textiles 827 051 1 098 496 679 403 949 946 954 896 Textiles 518 071 637 409 379 591 782 095 572 016 574 314 Other textile products 4 540 959 308 980 389 377 930 1 271 326 209 044 1 062 282 Total wearing apparel
Knitted, crocheted articles 12 991 350 1 120 167 1 024 754 1 106 983 921 945 917 668 2 239 497 10 751 853 165 454 756 491 129 867 231 913 182 082 Wearing apparel Tanning and dressing of leather 787 801 888 254 842 672 925 652 3 068 673 174 586 187 213 525 Footwear 2 133 070 13 530 443 146 680 212 017 155 186 201 707 169 234 211 580 Wood and products of wood 856 574 1 185 261 946 1 050 014 1 031 389 1 165 917 Sawmilling and planing of wood Products of wood 234 524 622 050 318 491 712 898 3 872 369 354 431 287 080 308 852 379 629 9 658 074 830 830 741 162 786 288 659 785 Products of wood
Paper and paper products
Total publishing and printing 2 692 672 1 528 829 29 655 690 15 206 528 2 259 360 1 062 348 2 389 191 1 189 049 2 499 003 1 249 429 2 524 185 2 677 205 1 225 768 1 384 872 Publishing 5 846 583 445 858 611 166 472 348 464 503 520 170 492 914 Printing, recorded media 9 359 945 616 490 917 663 753 420 724 546 729 259 891 958 Coke and refined petroleum 37 193 193 3 489 165 3 003 038 2 992 288 3 548 746 2 875 719 3 059 146 products 2 326 499 2 533 491 469 785 1 111 879 2 656 367 3 394 988 Basic chemicals 2 141 043 2 796 709 2 596 223 2 789 109 2 334 204 3 005 732 29 439 116 2 408 256 36 426 459 6 733 271 15 979 459 Other chemical products 3 102 620 497 715 1 205 098 584 545 1 308 648 Rubber products 599 183 550 609 619 448 1 542 281 1 332 610 1 Plastic products 413 298 Glass and glass products Other non-metallic mineral 3 389 768 340 742 278 751 252 617 264 804 products 15 053 394 52 352 603 1 041 037 1 430 236 1 056 319 4 263 811 3 957 099 1 336 696 1 287 373 1 344 934 4 128 733 3 969 449 Basic iron and steel products 3 588 724 3 622 632 Basic precious and non-ferrous metal products
Fabricated metal products 18 982 167 2 145 931 1 630 097 1 664 651 1 830 445 1 520 447 1 416 095 2 439 878 746 033 3 117 705 35 249 267 10 742 423 3 312 376 2 859 993 2 271 Structural metal products
Other fabricated metal product 959 879 653 312 954 103 836 406 837 263 1 693 845 2 352 497 2 163 602 2 023 587 24 506 844 1 618 2 067 069 Total machinery and equipment General purpose machinery 28 628 984 12 150 380 2 382 970 1 052 362 2 552 481 1 123 958 2 345 489 2 440 447 2 459 634 2 390 716 1 000 1 033 578 1 047 111 13 724 749 2 753 855 Special purpose machinery 1 142 002 1 151 224 277 299 1 189 409 1 150 862 1 193 095 1 201 798 Household appliances 188 606 256 007 219 427 Electrical machinery, apparatus 17 322 009
Radio, television and 1 195 855 1 602 519 1 222 115 1 461 311 1 417 661 1 482 845 communication apparatus
Professional equipment 5 198 485 403 469 434 251 481 394 429 843 470 991 2 111 248 149 478 179 755 184 410 162 958 173 042 187 840 Motor vehicles; trailers; 6 531 499 6 647 892 78 244 464 4 838 462 7 354 413 4 877 831 6 435 728 parts and accessories Motor vehicles 53 859 403 3 434 156 5 192 292 3 263 453 4 451 406 4 519 490 4 255 642 Bodies for motor vehicles; trailers and semi-trailers 2 381 906 124 739 225 604 180 951 164 649 201 107 238 637 1 915 444 1 715 131 2 153 613 386 975 332 413 323 674 Parts and accessories 22 003 155 1 279 567 1 936 517 1 433 427 3 871 607 7 433 943 Other transport equipment 308 180 329 182 255 529 Furniture 401 915 807 995 538 692 536 953 594 593 721 791 Other manufacturing divisions 17 764 033 1 388 610 1 654 047 1 468 568 1 470 357 1 478 235 -----613 630 317 | 47 372 378 55 512 082 47 872 089 | 51 172 992 49 903 458 51 657 153

^{*} Revised

^{1/} Preliminary

Table 5 - Value of unfilled orders according to selected manufacturing subgroups (R'000)

Selected			Ac	tual	values			Sea	sonally a	adjust	ed values	
manufacturing subgroups	Decei	mber	Novem	ber	 Decemi	ber 1/	Decem			ember	Decei	mber
	20	02			2003		1	2002 2003				
Spinning, weaving and												
finishing of textiles Tents, tarpaulins, sails and other canvas goods and	311	628	256	315	274	211	368	503	262	2 741	325	583
automotive textile goods	40	714	33	241	37	729	40	418	4	2 181	37	298
Other textile articles		058		971		768		853		7 259		702
Knitted and crotcheted												
fabrics and articles		241		638		042		541		124		828
Wearing apparel Sawmilling and preserving	740	882	635	067	577	034	822	616	629	968	641	230
of timber Veneer sheets, plywood,	22	825	24	940	24	983	24	364	24	1 375	26	768
laminboard, etc.	1 21	846	2.2	550	22	636	22	425	20	935	22	588
Builders' carpentry] 3T	040	32	330	22	030] 33	423	2:	, ,,,	23	300
and joinery	36	442	42	984	46	443	37	180	41	105	47	370
Pulp, paper and paperboard		142		842		253		702		880		014
Corrugated paper and paper-	44/	142	209	042	255	233	220	702	210	000	256	014
board and containers	353	475	307	225	376	220	355	965	37	7 180	380	527
Paints, varnishes and coatings		210		207		552		344		625		661
Basic iron and steel products	4 695		5 557		5 679		4 920			1 133	5 984	
Steel pipe and tube mills		543		757		034		429		786		727
Basic precious and non-							1					. = .
ferrous metal products	1 836	040	1 429	726	1 509	584	1 923	749	1 534	1 659	1 573	600
Metal structures, parts	1 393		974			909	1 459			3 674	1 047	
Cutlery, hand tools and												
general hardware	29	404	29	828	20	911	22	180	31	062	15	408
Metal containers, e.g. cans and tins	64	516	6.1	823	66	518	64	999	6	1 862	67	032
and tims Cables, wire products, springs		636		941		450		563		3 167		102
Metal fasteners		475		506		268		117		669		458
All other metal products		925		813		896		208		5 371		944
Domestic appliances		411		184		760		072		9 594		331
Electric motors, generators] 30	411	32	104	30	700	20	0 / 2	2:	334	20	331
and transformers	561	329	170	727	102	357	F72	321	100	5 133	401	976
Insulated wire and cables		886		325		776		960		7 645		219
Accumulators, primary cells	3/3	300	303	223	555	, , ,	367	200	32	0.43	243	ربد
and primary batteries	5	888	3	894	5	006	5	936		8 887	5	039
Television, radio and	i	300	3	0,1	3			,,,,			3	
communication apparatus	1 839	353	2 216	353	2 286	187	2 076	747	2 465	966	2 577	824
Motor vehicles	2 728		3 056		3 223		2 763			7 171	3 260	
Parts and accessories for	20		2 330		23		00				2 200	
motor vehicles	370	857	283	703	348	069	372	689	320	850	350	432
Furniture		515		298		849		851		7 418		708

^{*} Revised

Explanatory notes

1

Introduction

- Statistics South Africa (Stats SA) conducts a monthly survey of the manufacturing industry covering private manufacturing establishments, public corporations and government establishments. This statistical release contains historical information regarding indices of the physical volume of manufacturing production, the total value of sales of manufactured products and unfilled orders, according to manufacturing divisions and major groups on a monthly basis.
- In accordance with international practice, the indices have to be re-based every five years to a new base year. The indices in this statistical release have been calculated on the basis of 2000=100. Both actual and seasonally adjusted figures are presented.
- In order to improve timeliness, some information for the current month (December 2003) have been estimated due to late response. These estimates will be revised in future statistical release(s) as soon as more up-to-date information is available.

Scope of the survey

4 This survey covers manufacturing establishments conducting activities regarding -

the manufacturing, processing, making or packing of products; the slaughtering of animals, including poultry; and installation, assembly, completion, repair and related work.

Classification

The 1993 edition of the Standard Industrial Classification of all Economic Activities (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 International Standard Industrial Classification of all Economic Activities (ISIC) with suitable adaptations for local conditions. Statistics in this publication are presented at SIC division and major group level. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment.

Statistical unit

The basic statistical unit for the collection of information is the manufacturing establishment. An establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (see paragraph 5).

Weighting

A weight is calculated for every major group according to the value added of the relevant major group compared with the value added of the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical volume of manufacturing production index (see table D for the fixed weights which were used for the three periods 1990 to 1992, 1993 to 1995 and 1996 to 2003).

Re-basing

In accordance with international practice, the indices have to be re-based every five years to a new base year. The indices in this statistical release have been calculated on the basis of 2000=100. The first results on this basis were published in the December 2002 statistical release. Both actual and seasonally adjusted figures are presented.

Survey methodology and 9 design

The calculation of the monthly production indices is based on the value of products and articles manufactured, after the effect of price changes has been eliminated through deflation by using appropriate sub-indices of the Production Price Index (PPI). The value of the manufactured products is obtained from a monthly survey of manufacturing establishments in the private and public sectors.

10 The survey is collected by mail each month from a sample of approximately 2 400 manufacturing establishments.

11 The above-mentioned measurement method in paragraph 9 was followed in 36 of the 45 major groups. On account of certain considerations more appropriate indicators were used for the nine remaining major groups, namely grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles and other transport equipment. The volume indices for the major groups grain mill products, tobacco products, coke and refined petroleum products, basic iron and steel products, basic precious and non-ferrous metal products, motor vehicles, bodies for motor vehicles and parts and accessories for motor vehicles and other transport equipment are calculated on the basis of physical quantities. This method based on physical quantities is applied by other international statistical agencies for petroleum products due to the results being more satisfactory (mainly due to these commodities being relatively homogeneous and the nature of the industry). For publication purposes, the major group tobacco products is included under 'Other manufacturing industries'.

Sample design

The 1988 Census of Manufacturing provided the sampling frame for the selection of the monthly sample regarding manufacturing production and sales which was implemented as from January 1995. A stratified systematic sample design based on gross output was used. All statistical units were stratified by type of economic activity according to the *Standard Industrial Classification of all Economic Activities (SIC)* and measure of size, where measure of size was the total manufacturing gross output of the establishment. All large establishments (size category one cases) are completely enumerated. A sample was drawn from medium and small size establishments by systematically selecting establishments with equal probability.

Benchmarking

- 13 The index of physical volume of manufacturing production as well as the total value of sales of manufactured products should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities as measured by the monthly Manufacturing Production and Sales survey is based on information received from a sample of manufacturing establishments which is weighted according to the original sample design in order to represent the population of manufacturing establishments. It is necessary to adjust the level of activities as measured by the monthly survey to the level of activities as measured periodically by the Census of Manufacturing. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking. The results, due to benchmarking, were published in statistical releases P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999) on 21 December 1999 and P3041.4 (entitled Manufacturing statistics: Value of sales, January 1990 to September 1999) on 8 December 1999.
- 14 The results of the 1991, 1993 and 1996 Censuses of Manufacturing and information obtained from the former TBVC states were used to adjust the level of the manufacturing production indices and the value of sales of manufactured products. The total value of output of the manufacturing major groups (which represents the total value of work done by the establishments in these major groups) as obtained from the manufacturing censuses, was deflated with appropriate sub-indices of the Production Price Index in order to calculate the real output. The latter served as benchmarks to verify or adjust the level of the monthly physical volume of manufacturing production indices. The level adjustments were done on the volume indices for January of the relevant census year (e.g. the 1996 census year covers the period 1 July 1995 to 30 June 1996 and therefore the benchmarking was done using the index of January 1996 as reference point). The motor vehicle major group is the only exception where the financial year for most of the establishments covered the period 1 January 1995 to 31 December 1995. The benchmarking was done using the physical volume of manufacturing production index for July 1995 as reference point.

Production index for the total manufacturing industry

15 In order to calculate a production index for the total manufacturing industry, the production indices for the major groups are combined as follows:

A weight is calculated for every major group according to the value added of the relevant major group compared with the value added of the total manufacturing industry based on the 1991, 1993 and 1996 Censuses of Manufacturing. Weights between census years are fixed and are based on the results of the most recent Census of Manufacturing. The production indices of all the major groups are multiplied by the applicable weights and aggregated to reflect the total physical volume of manufacturing production index.

Seasonal adjustment

16

Seasonally adjusted estimates of all major groups are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.

Trend cycle

17 The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.

Reliability of estimates

18 Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.

Historical data

- More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups for the period January 1990 to November 2002 is available in statistical release P3041.3 (entitled Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002).
- More comprehensive detail on the method of calculation and historical data in respect of the value of sales for the period January 1990 to September 1999 was published on 8 December 1999 in statistical release P3041.4.

Related publications

- 21 Users may also wish to refer to the following publications which are available from Stats SA -
 - P3041.3: Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 2000=100, January 1990 to November 2002.
 - P3041.4: Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.

 Bulletin of Statistics.

SA Statistics.

P0441: Gross Domestic Product.

Unpublished statistics

In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as a computer printout, diskette or CD. Generally a charge is made for providing unpublished statistics.

Rounding-off of figures

The figures in the tables have, where necessary, been rounded off to the nearest final digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.

Pre-release policy

25 Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za.

Symbols and abbreviations

GDP Gross Domestic Product

ISIC International Standard Classification of all Economic Activities

PPI Production Price Index

SIC Standard Industrial Classification of all Economic Activities

SNA System of National Accounts

Stats SA Statistics South Africa

TBVC states Relates to the former Transkei, Bophuthatswana, Venda and Ciskei

states

1/ Preliminary figures* Revised figures

Glossary

Enterprise

An enterprise is a legal entity consisting of one or more establishments. The establishments need not necessarily all be manufacturing establishments, but some may be classifiable as other industries of the economy, such as wholesale trade, retail trade, motor trade and construction.

Establishment

An establishment is defined as an enterprise, or part of an enterprise, that is situated at a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.

Index of physical volume of manufacturing production

The index of physical volume of manufacturing production or a production index is a statistical measure of the change in the volume of production. The production index of a major group is the ratio between the volume of production of a major group in a given period and the volume of production of the same major group in the base period. The base period is 2000. The production in the base period is set at 100.

Industry

An industry consists of a group of establishments engaged in the same or similar kinds of economic activity. Industries are defined in the *System of National Accounts (SNA)* in the same way as in the *Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC)*.

Intercensal period

Intercensal period is the period between January of the one census year and January of the next census year.

Intermediate consumption

Intermediate consumption includes -

purchases and transfers-in of materials;

payments to other establishments for work done;

other direct factory costs; rent and leasing paid; head office charges;

royalties, copyright, trade names and patent rights paid;

advertising;

insurance premiums;

services; and

secretarial and administrative fees.

Output

Output is the aggregate value of goods manufactured and work done.

Output 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 stocks of factored goods;

head office charges; and

other revenue.

Output excludes -

excise and customs duty paid.

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.

Sales

Sales are the total value of sales and transfers-out of all own manufactured products/articles and the amounts received for installation, erection or assembly or other services rendered.

Weight

The weight of a major group is the ratio of the value added of a major group (i.e. output of a major group minus intermediate consumption) to the total value added of the manufacturing industry. The weight of a major group reflects the importance of the major group in the total manufacturing industry. The weights change over time due to quality changes, changes in relative prices, and changes in preference, etc. New weights need to be calculated from time to time.

 $Table\ D\ -\ Weights\ and\ the\ average\ indices\ of\ physical\ volume\ of\ manufacturing\ production\ according\ to\ manufacturing\ divisions\ and\ major\ groups\ before\ re-basing$

Base 1995 = 100

				Base 1995 = 100
	Weights			Average indices for
Manufacturing divisions and major groups	1000 1000			the year 2000
	1990-1992	1993-1995	1996-2003	before re-basing
Food and food products	10,97	12,33	10,71	99,1
Meat, fish, fruit etc.	2,93	3,20	2,83	111,7
Dairy products	1,40	1,68	1,36	89,4
Grain mill products	2,13	2,80	2,10	91,3
Other food products	4,52	4,65	4,41	97,6
Beverages	4,83	5,26	4,60	92,6
Total textiles	3,33	3,33	2,88	93,5
Textiles	2,09	2,03	1,69	84,6
Other textile products	1,24	1,30	1,19	106,2
Total wearing apparel	3,94	3,81	3,60	82,8
Knitted, crocheted articles	0,67	0,64	0,60	73,9
Wearing apparel	3,27	3,17	3,00	84,5
Tanning and dressing of leather	0,41	0,34	0,41	125,2
Footwear	1,15	1,10	0,93	65,6
Wood and products of wood	1,96	1,81	1,95	119,3
Sawmilling and planning of wood	0,98	0,82	0,77	104,8
Products of wood	0,97	0,99	1,17	128,8
Paper and paper products	4,58	4,73	5,32	105,3
Total publishing and printing	3,57	3,95	4,11	87,8
Publishing	1,15	1,41	1,48	97,8
Printing, recorded media	2,42	2,54	2,63	82,3
Coke and refined petroleum products	6,45	6,41	4,17	104,5
Basic chemicals	4,57	3,19	4,47	132,0
Other chemical products	5,97	6,61	6,17	101,8
Rubber products	1,59	1,52	1,36	98,7
Plastic products	2,58	2,85	3,08	89,7
Glass and glass products	1,15	0,99	1,00	88,5
Other non-metallic mineral products	3,67	3,58	3,50	97,6
Basic iron and steel products	6,90	6,49	7,56	116,3
Basic precious and non-ferrous metal products	2,15	2,19	3,25	175,6
Fabricated metal products	7,53	6,84	7,03	103,4
Structural metal products	2,84	2,04	2,39	90,5
Other fabricated metal products	4,69	4,80	4,65	110,0
Total machinery and equipment	6,31	6,06	5,78	99,7
General purpose machinery	2,58	2,59	2,50	110,6
Special purpose machinery	3,14	2,82	2,89	87,8
Household appliances	0,60	0,65	0,39	117,0
Electrical machinery, apparatus	3,36	3,49	3,45	102,1
Electric motors	0,31	0,37	0,57	106,9
Electricity distribution	0,32	0,46	0,52	135,2
Insulated wire and cables	0,71	0,79	0,77	91,1
Accumulators	0,43	0,47	0,33	82,3
Electric lamps	0,30	0,25	0,22	90,5
Other electrical equipment	1,28	1,15	1,04	99,9
Radio, television and communication apparatus	1,59	1,20	0,97	123,8
Professional equipment	0,41	0,54	0,51	80,9
Motor vehicles; trailers; parts and accessories	6,40	6,77	8,05	119,6
Motor vehicles	3,30	3,62	4,50	114,9
Bodies for motor vehicles; trailers and semi-trailers	0,61	0,52	0,55	63,3
Parts and accessories	2,49	2,62	3,00	137,0
Other transport equipment	1,16	1,10	1,01	118,3
Furniture	1,69	1,62	1,56	98,9
Other manufacturing divisions	1,79	1,88	2,58	111,5
Total	100,0	100,0	100,0	106,0

General information

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English only.

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