# Manufacturing: production and sales P3041.2

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Conte	nts
Notes	
Tables	
Table 1	Indices of the physical volume of manufacturing production: Total
Table 2	Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups
Table 3	Value of sales of the manufacturing industry: Total (R'000)
Table 4	Value of sales of manufactured products according to manufacturing divisions and major groups (R'000)
Table 5	Value of unfilled orders according to selected manufacturing subgroups (R'000)
Addition	al information
	Explanatory notes
	Technical notes
	Glossary

For more infor	mation		

# Key figures as at the end of April 2001

Actual estimates	April 2001	% change between April 2000 and April 2001	% change between February 2000 to April 2000 and February 2001 to April 2001	% change between January 2000 to April 2000 and January 2001 to April 2001
Physical volume of manufacturing production index (1995=100) Total value of sales	100,0	+7,3	4,0	4 <b>7</b> +4,6
of manufactured products (R million)	37 758,8	+15,5	+13,4	+14,7

Seasonally		% change	% change
adjusted	April	between	between
estimates	2001	March 2001	November 2000 to
		and	January 2001
		April 2001	and
			February 2001 to
			April 2001
Physical volume of			
manufacturing			
production index	106,9	-2,7	-1,7
(1995=100)			
Total value of sales			
of manufactured			
products	40 164,9	-2,7	+0,9
(R million)			

# Key findings as at the end of April 2001

## MANUFACTURING PRODUCTION DECREASES

Manufacturing production for the three months ended April 2001 reflected a decrease of 1,7% after seasonal adjustment compared with the previous three months. Lower production was

#### reported by 19 of the 27 manufacturing divisions.

The major contributor to the decrease of 1,7% after seasonal adjustment in the total manufacturing production was the basic iron and steel products division (-0,5 of a percentage point), followed by motor vehicle (-0,4 of a percentage point), wearing apparel (-0,3 of a percentage point), other non-metallic mineral products (-0,3 of a percentage point) and fabricated metal products (-0,3 of a percentage point) divisions (cf. table A).

# Table A - Contribution of the production by the different manufacturing divisions to the total manufacturing production (Base 1995=100)

the cocar manufacturing	production	(Base 1995-100)		
	Percentage	Average	Ouarterly	Contribution
Manufacturing		seasonally	1.4	(percentage
Divisions	tion to the		change	points) to
	total manu-		(February2001	
		index for	to	nally adjus-
	production		April 2001	ted quarterly
	in the base		compared	percentage
		February 2001	with the	change in
	(Weights)			total manu-
	(weights)	to	preceding	
		April 2001	three	facturing
1	l	1	months)	production 1/
Food and food products	10,7	109,5	+7,7	+0,8
Beverages	4,6	97,1	+10,0	+0,5
Total textiles	2,9	94.4	+1,7	+0,1
Total wearing apparel	2,9	76,2	-6,7	-0,3
Tanning and dressing of leather		130,3	-4,5	-0,0
Footwear	0,4	54,7	-15,6	-0,2
Wood and products of wood	1,9	118,0	-0,8	-0,0
Paper and paper products	5,3	105,4	-2,4	-0,1
Total publishing and printing	4,1	82,9	-5,3	-0,2
Coke and refined petroleum				
products	4,2	107,8	+2,0	+0,1
Basic chemicals	4,5	138,3	-2,8	-0,1
Other chemical products	6,2	103,7	-0,7	-0,1
Rubber products	1,4	98,5	-7,2	-0,1
Plastic products	3,1	96,3	+1,5	+0,0
Glass and glass products	1,0	97,8	+4,3	+0,0
Other non-metallic mineral				
products	3,5	85,7	-7,4	-0,3
Basic iron and steel products	7,6	109,3	-7,1	-0,5
Basic precious and non-ferrous				
metal products	3,2	165,7	-0,7	-0,0
Fabricated metal products	7,0	103,8	-4,7	-0,3
Total machinery and equipment	5,8	108,6	-3,6	-0,2
Electrical machinery, apparatus	3,4	102,0	-4,0	-0,1
Radio, television and				1
communication apparatus	i 1,0	117,0	+1,4	+0,0
Professional equipment	0,5	90,4	-1,4	-0,0
Motor vehicles; trailers;	i ·			
parts and accessories	8,0	135,9	-4,3	-0,4
Other transport equipment	1,0	116,7	-4,1	-0,1
Furniture	1,6	92,2	-11,2	-0,2
Other manufacturing divisions	2,6	112,1	+0,8	+0,0
Total	100,0	108,2	-1,7	-1,7
·	•			

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

#### SALES OF MANUFACTURED PRODUCTS INCREASE

The total value of sales of manufactured products at current prices for the three months ended April 2001 reflected an increase of 0,9% (+R1 135 million) after seasonal adjustment compared with the previous three months. Higher manufacturing sales were reported by 14 of the 27 manufacturing divisions during this period. Furthermore, the actual total value of sales of manufactured products at current prices for the three months ended April 2001 reflected an increase of 13,4% (+R14 145 million) compared with three months ended April 2000. Higher manufacturing sales were reported by 21 of the 27 manufacturing divisions during the latter period.

The increase of 0,9% after seasonal adjustment in the total value of sales of manufactured products at current prices for the three months ended April 2001 compared with the previous three months was mainly due to large increases reported by the beverage (+11,8% or +R615 million), food and food products (+9,0% or +R1 429 million) and coke and refined petroleum products (+3,8% or +R352 million) divisions.

The major contributors to the increase of 13,4% in the actual value of sales of manufactured products at current prices for the three months ended April 2001 compared with the three months ended April 2000 were the motor vehicle (+2,8 percentage points or +R2 963 million), food and food products (+2,4 percentage points or R2 508 million), coke and refined petroleum products (+2,1 percentage points or +R2 254 million), basic chemicals (+0,8 of a percentage points or

+R815 million) and basic precious and non-ferrous metal products (+0,7 of a percentage point or +R737 million) divisions.

# Notes

Forthcoming issues	Issue	Expected release date
	May 2001	10 July 2001
	June 2001	7 August 2001
	July 2001	11 September 2001

	August 2001	9 October 2001					
	September 2001	6 November 2001					
	October 2001	11 December 2001					
	November 2001	8 January 2002					
	December 2001	12 February 2002					
Purpose of the surveyThe monthly Manufacturing Production and Sales Survey is a country-wide sample survey covering a sample of private establishments, public corporations and government establishments operating in the manufacturing industry in the South African economy. The results of this survey are used to calculate physical volume of manufacturing production indices in order to estimate the gross domestic product (GDP) to monitor and develop Government policy.							

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

				Base 1995 = 1	00		
Month	1995	1996	1997	1998	1999	2000	2001
				Actual indice	s		
J	80,6	83,6	89,8	89,6	86,7	88,8	94,7
F	97,6	96,7	103,1	101,1	98,0	103,2	105,8
M	104,2	102,6	102,5	102,7	101,4	109,0	111,8
A	91,0	96,4	105,5	96,3	94,8	93,2	100,0 1,
M	101,8	104,1	106,2	101,1	101,1	106,5	
J	102,4	102,9	104,9	104,5	100,5	110,4	
J	101,7	104,7	108,2	104,4	104,3	107,2	
A	106,0	107,8	105,8	99,9	103,5	108,5	
S	106,7	105,2	108,2	106,8	107,0	112,4	
0	112,5	115,8	119,1	111,7	112,9	117,0	
N	110,7	114,4	111,7	109,8	115,5	120,7	
D	84,8	83,7	86,9	85,3	90,5	94,7	
Year	100,0	101,5	104,3	101,1	101,4	106,0	
J	96,5		105,5	104,7	100,5	102,2	109,0
F	99,3	98,6	105,2	102,9	99,8	105,0	107,7
мі	100.0	99,5	100.3	100,9	99,6	106,9	109,9

A	97,2	102,2	111,2	101,7	100,3	99,3	106,9
M	101,7	104,0	105,4	100,1	100,3	105,6	i i
J	101,1	101,5	103,3	102,8	99,0	108,5	ĺ
J	99,9	102,4	105,6	101,6	101,6	104,2	
A	102,6	104,5	103,0	97,6	101,5	106,5	
S	101,5	100,2	103,1	101,9	102,2	107,3	
0	101,3	103,3	106,3	100,3	101,6	105,6	
N	99,8	103,0	100,9	99,3	104,6	109,4	
D	98,2	98,8	102,2	100,2	106,7	111,6	Ì

\* Revised 1/ Preliminary

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

Base 1995 = 100

Manufacturing		Actual indices						
divisions	Weights	i i	April		   April 1/			
		2000		20	 001	2000	200	
Food and food products	10.7				104 0			
Meat, fish, fruit etc.	10,7	99,2	110 0	99,4 110 6	104,8 119,9	95,4	110,4	112,0
Dairv products	2,0		110,0	119,0	119,9	1 109,7	114,0	119,0
Grain mill products	1,4	09,4	/8,5	97,7	82,0	04 0	95,1 100 9	93,7
Other food products	2,1	00 0	90,0	100,7	100 4	94,0	117 0	93,0 121 4
Beverages	4,4	90,0	00,5	101 0	109,4	00,0	117,0	121,4
Total tortilog	4,0	92,0 02 E	03,1	101,0	00,0	90,5	90,3	39,3
Total textiles Textiles	2,9	93,5	04,0	104,5	70 0	91,4 01 E	95,5 0E /	93,2 02 7
Other textile products	1 2	106 2	0/ 0	117 9	10,0	105 /	100 2	102,/
Total wearing apparel	1,2 2 E	1 2 2 0	77 0	11/,0 97 0	97,0 72 1	1 203,4	76 9	100,0
Knitted, crocheted articles	3,0 0 6	04,8	( //,U	07,2	70 0	60,4	76,3	70,0
Wearing apparel	3.0	0/ E	08,8 79 F	87.3	73 6	926	70,2	71,5
Tanning and dressing of leather	3,0	125 2	120 0	0/,5 1/1 6	119;9 82,0 89,4 109,4 86,0 86,3 78,8 97,0 73,1 70,9 73,6 126,1 50,3 113,6 107,6 117,6 94,6 77,1	02,0	125 2	129 4
Footwear	0,1	65 6	63 9	60 2	50 3	68 9	55 9	54 4
Wood and products of wood	1 9	110 2	109.9	122.9	112 6	11115	116 7	116 5
Sawmilling and planing of wood	1,5	101 8	101 2	112 7	107 6	105 7	109 2	112 5
Products of wood	1 2	120 2,0	112 0	120 /	117 6	115 2	122 1	110 2
Paper and paper products	5 3	105 2	113,5	108 5	94.6	07.9	106 1	104 8
Total publishing and printing	1 1	07 0	00,0	100,5	77 1	0 5 5	82,4	82,4
Publishing	1 5	07,0	00,1	91 6	77,1 86,6 71,8	101 5	90,4	89,4
Printing, recorded media	2.6	82 3	90,2 70 4	91,0 82 3	71 8	76 5	77,9	
Coke and refined petroleum	2,0	02,5	,0,1	02,5	/1,0	, , , , , , ,	11,5	,0,1
products	4 2	104 5	100.8	103 5	109.8	98.4	110 8	107 5
Basic chemicals	4 5	134 9	109 7	128 3	125 6	1193	138 6	138 0
Other chemical products	6 2	101 8	100 3	110 8	109,8 125,6 98,7	104 3	105 8	102 7
Rubber products	1 4	98 7	77 1	118 3	793	78 4	113 5	81 0
Plastic products	3 1	89 7	79.0	99.9	91 4	84 6	93 4	98.4
Glass and glass products	1.0	88.5	82.8	92.2	79,3 91,4 96,8	86.6	95.8	100 8
Other non-metallic mineral	1,0	00,5	02,0	2272	2070		2070	100,0
products	3.5	90.0	81.3	87.4	81.1	86.1	83,5	86,0
Basic iron and steel products   Basic precious and non-ferrous	7,6	116,3	115,1	114,7	81,1 100,8	116,6	113,2	102,2
metal products	3,2	163,4	147,6	169,7	156,6	161,7	175,1	173,6
Fabricated metal products	7 0	103 4	83.0	109 1	98 5	86 1	104 6	102,6
Structural metal products	2,4	90,5	73,8	96,0	89,4	80,0	90,8	97,2
Other fabricated metal product	4,6	110,0	87,7	115,9	89,4 103,2 94,4 113,8 78,2	89,2	90,8 111,7	105,3
Total machinery and equipment	5,8	99,6	75,3	122,4	94,4	84,7	111,0	106,7
General purpose machinery	2,5	110,6	86,4	109,4	113,8	86,7	104,3	114,7
Special purpose machinery	2,9	87,8	64,4	134,0	78,2	81,2	115,9	99,9
Household appliances Electrical machinery, apparatus	0,4	116,9	85,2	119,3	90,5	98,4	117,7	106,4
Electrical machinery, apparatus	3,4	102,1	88,3	110,8	90,8	95,3	105,3	97,9
Radio, television and								
communication apparatus	1,0	123,7	121,0	113,2	106,7 86,3	138,3	109,4	120,4
Professional equipment	0,5	80,9	70,7	93,2	86,3	73,4	87,1	90,2

parts and accessories	8,0	125,4	101,1	149,3	123,6	105,5	140,8	130,2
Motor vehicles	4,5	114,9	91,8	143,4	110,5	98,8	135,2	120,3
Bodies for motor vehicles;	ĺ	i i						Í
trailers and semi-trailers	0,5	63,3	67,8	81,4	81,0	66,0	70,9	79,0
Parts and accessories	3,0	152,4	121,1	170,5	151,0	123,0	162,0	154,5
Other transport equipment	1,0	115,0	110,2	113,7	119,1	106,3	118,0	114,9
Furniture	1,6	98,9	78,8	99,4	74,8	87,9	98,5	84,4
Other manufacturing divisions	2,6	111,5	83,7	113,3	88,2	103,2	112,3	108,1
Total	100,0	106,0	93,2	111,8	100,0	99,3	109,9	106,9

\* Revised 1/ Preliminary

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

Month	:	1995		-	1996	I	19	997		:	1998	I	-	1999		2	2000	*		200	1
										Actua	l va	lues									
J	19	206	220	21	803	249	25	254	480	25	913	926	26	410	458	28	601	180	34	247	325*
F	24	414	317	26	328	500	29	866	793	29	901	544	30	607	558	35	189	976	39	274	357*
М	26	712	878	28	188	286	29	866	272	32	190	538	32	788	344	38	037	515	43	022	215
A	22	897	368	26	231	967			604		758	879	30	508	382	32	682	801	37	758	814 1,
М	25	806	431	28	293	052	30	626	091	30	352	835	32	737	449	37	068	308			
J	26	204	689	28	261	416	30	575	542	31	723	893	33	126	289	38	704	882			
J	25	613	126			392		169	707	31	732	667	33	429	319	36	278	835			
A	27	064	919	29	568	761	31	400	042	30	810	619	33	740	922	38	969	664			
S	27	737	968	29	549	724	31	344	644	32	896	327	35	884	855	39	925	256			
	29					022				34				436	877	41	735	176			
N										34						43					
D	23	877	458	26	338	721	28	128	922	29	016	347	33	036	204	37	361	236			
Year	308	790	007	339	096	803	368	283	280	373	568	657	398	605	126	448	551	522			
									S	Seasona	ally	adjı	usted	valı	les						
JF										31										759	
F. M			/3/ 892			479 513				30 30					757 614			035 047			853
A	25					935				30					614 745			04/			413 872
M	24					935 921				30					745 613			431	40	104	8/2
	25				322 931					30 31					613 683		145				
	25					073				31					447		939				
	25					013				30					216			177			
	26					608				31					078		189				
	26					076				31					650			119			
N	26									30					699			626			
	1 20	010	270	20	. 20	550	50	501	510		612			- / -		55		020			

\* Revised 1/ Preliminary

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

   Manufacturing		Actual values   Seasonally adjusted values									
divisions and major groups	Year	April	March   April 1/	April	March April						
	2000	2000	2001	2000	2001						
Food and food products	59 567 213	4 832 194	5 799 316 5 566 750	4 951 109	5 993 228 5 713 116						

Meat, fish, fruit etc. Dairy products Grain mill products	7	246	839 522 318	İ –	461 544	418		694	103		584	824 518 866	i	606	905 675 880		673	249		653	563
Other food products												866 542			880 494						
Beverages			534 659									542 398			494 311						
			459				Ŧ		108			986			615	Ŧ		854		885	
Textiles			583	1	512			632				952			262			989		549	
Other textile products			876		274			340				034	-		635			958		327	
Total wearing apparel			645				1	007				420	-		634			952		867	
Knitted, crocheted articles			563		134		Ŧ	174				900			284			141		138	
Wearing apparel			082		750			833				520			764			346		724	
Canning and dressing of leather					216				152			517			851			869		237	
Contwear			178		188			172				325			620			743		161	
ood and products of wood			197		677			801				895			060			849		801	
Sawmilling and planing of wood			363		192			238				318			703			534		255	
Products of wood			834		485				701			577			568			038		564	
aper and paper products										1		321			191	2					
otal publishing and printing			548						607			963			192			446		956	
Publishing			251		377		T		706			902			652			692		378	
Printing, recorded media			297	1		037			901			902 061			258			628		575	
oke and refined petroleum	i						_						İ			_					
products			682									431			384						
asic chemicals			200									559			278						
ther chemical products			958	2								969			147						
ubber products			737		339				323			480			360			041		388	
lastic products			187				1	045				538			087			829		954	
lass and glass products	2	280	493		160	306		215	043		208	113		177	722		229	518		230	724
ther non-metallic mineral	!												ļ								
products			683	!	753				491			927			872			944		894	
asic iron and steel products asic precious and non-ferrous	İ		317	İ.								812	İ		938						
metal products			665									904			443						
abricated metal products			734		697		2					964			838	2					
Structural metal products			495		545				411			851			557			961		677	
Other fabricated metal product																					
otal machinery and equipment												788			588	1					
General purpose machinery			849		603				931			554			303			485		788	
			911				1					169			685			924		750	
Household appliances			208		135			199				065			500			048			171
lectrical machinery, apparatus adio, television and	13	219	217	ļ	961	211	1	304	514	1	077	168	1	020	862	1	240	838	1	151	411
communication apparatus			808		365				394			006			645			663			087
rofessional equipment otor vehicles; trailers;	1	388	382		96	057			011			406		98	698		129	482		127	476
parts and accessories	54	020	716	3	508	869	5	998	772	4	505	989	3	746	572	5	306	616	4	834	553
Motor vehicles Bodies for motor vehicles;	37	493	963	2	389	768	4	287	487	3	023	607	2	601	373	3	720	899	3	309	257
trailers and semi-trailers	1	670	903		112	460		170	390		122	101		112	834		144	393		123	811
Parts and accessories			850	1			1					281			378	1			1		
ther transport equipment			376						815	+	170	999	1		786	-		900	-	241	
urniture			537	1	406				315		423	992	ł		654			121			711
ther manufacturing divisions				1			1			1						1			1		
otal	448	551	522	32	682	801	43	022	215	37	758	814	34	690	074	41	262	413	40	164	872

\* Revised 1/ Preliminary

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

Selected	Actual values Seasonally adjusted values											
manufacturing subgroups	April	March	April 1/	   April	   March	April						
	2000		2001	2000	2001							

Spinning, weaving and finishing of textiles		091	209	E02	214	898	1 210	278	204	543	200	981
Tents, tarpaulins, sails	223	091	209	505	214	090	210	270	204	545	209	201
and other canvas goods and												
automotive textile goods	25	045	28	EOO	27	074	25	498	25	808	27	756
Other textile articles	25   63			309		173		288		311		756   946
Knitted and crotcheted	03	667	58	309	55	1/3	1 01	288	54	311	52	946
	140	<b>F</b> 1 <b>F</b>	1.0.1		0.0	700	1.40	E 2.1	1.0.1	642		200
fabrics and articles		515		766	96			531 740		643		376
Wearing apparel	784	647	700	761	684	133	793	740	698	455	694	128
Sawmilling and preserving												
of timber	24	451	27	567	29	045	23	766	25	505	28	147
Veneer sheets, plywood,												
laminboard, etc.	23	679	19	804	24	972	21	998	20	166	23	320
Builders' carpentry												
and joinery		065	46		46			087		610		426
Pulp, paper and paperboard	334	095	464	076	478	864	352	398	520	051	505	987
Corrugated paper and paper-												
board and containers	331			272		529				423		625
Paints, varnishes and coatings		042	23			763			28		33	
Basic iron and steel products	3 399	990	2 944	893	2 918	321	3 333	306	2 916	755	2 860	235
Steel pipe and tube mills	163	591	172	138	187	826	169	229	181	114	194	041
Basic precious and non-	ĺ						i i					i.
ferrous metal products	1 144		1 534			972	1 1 1 3 3	381	1 539	557	1 704	427
Metal structures, parts	1 021	268	1 363	698	1 218	312	1 010	074	1 357	788	1 205	767
Cutlery, hand tools and	i						i					i
general hardware	35	432	18	683	28	746	33	586	19	176	27	202
Metal containers, e.g. cans	i						i					i
and tins	74	873	83	102	89	359	76	670	80	702	91	534
Cables, wire products, springs	58	258	66	468	65	821	58	639	63	867	66	503
Metal fasteners		688	54		56			327		641		854
All other metal products	526		709			235		491				779
Domestic appliances	37		23		23				23			
Electric motors, generators	1 57	100	20	137	23	100	1 37	115	20	515	23	510
and transformers	456	691	374	793	371	134	462	869	368	810	378	045
Insulated wire and cables		366		085		676		159		740		053
Accumulators, primary cells	1 11	500	290	000	293	070	1 190	τJJ	2/4	/10	571	000
and primary batteries	13	628	15	690	16	295	1 10	864	1 0	034	1 5	314
Television, radio and	1 13	020	15	090	10	200	1 12	004	15	034	15	J14
	1 1 1 6 0	000	1 054	252	0.075	747	1 110	2.20	1 0.00	1 C 1	1 0 4 0	0.61
communication apparatus	1 169		1 954		2 075		1 110		1 962		1 949	
Motor vehicles	2 168	∠⊥3	2 104	048	2 183	930	1 998	044	1 975	543	2 032	004
Parts and accessories for		RAC	24.0	750	250	0.07		5.60		200		100
motor vehicles							297			308		406
Furniture	191	203	247	358	222	741	213	647	274	144	249	760

Additional information									
Explanatory	notes								
Introduction	1	Statistics South Africa (Stats SA) conducts a monthly sample survey of the							

		manufacturing industry covering private manufacturing establishments (branches), public corporations and government establishments. This statistical release contains detailed 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.
	2	In accordance to international practice, the indices have to be rebased every five years to a new base year. The indices in this statistical release have been calculated on the basis of 1995=100 since November 1997. Both actual and seasonally adjusted figures are presented.
	3	In order to improve timeliness, some information for the current month April have been estimated due to late response. These estimates will be revised in the 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 -
		<ul> <li>the manufacturing, processing, making or packing of products;</li> <li>the slaughtering of animals, including poultry; and</li> <li>installation, assembly, completion, repair and related work.</li> </ul>
Classification	5	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, major group and subgroup level. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment (branch).

Statistical unit	6	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 (cf. paragraph 6).
Survey methodology and design	7	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 sample survey of manufacturing establishments in the private and public sectors.
	8	The survey is collected by mail each month from a sample of approximately 2 500 manufacturing establishments.
	9	The above-mentioned measurement method in paragraph 7 was followed in 40 of the various major groups. On account of certain considerations more appropriate indicators were used for the four remaining major groups namely "other transport equipment"; tobacco products and coke and refined petroleum products and bodies for motor vehicles. The volume indices for the major groups tobacco products and coke and refined petroleum products are calculated on the basis of physical quantities. The major group tobacco products is included under 'Other' manufacturing industries. This method is also 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). In the case of "other transport equipment" units such as ships and aircraft are completed over a relatively long period and establishments can often not report charges for work done continuously. The sales and charges for work done are only shown after completion of the product, which is not a true reflection of the real production for the month under consideration. Therefore the index for "other transport equipment" is calculated monthly according to man-hours worked.

Sample design	10	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	11	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 sample 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 sample 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.
	12	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	13	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 to 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	14	Seasonally adjusted estimates of all items 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	15	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	16	Estimates are subject to sampling and non-sampling errors. Figures for the latest month are preliminary.
Historical data	17	More comprehensive detail on the method of calculation and historical data in respect of the production indices according to manufacturing major groups and the value of sales for the period January 1990 to September 1999 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.
Related	18	Users may also wish to refer to the following publications which are available
publications		<ul> <li>from Stats SA -</li> <li>P3041.3 -Manufacturing statistics: Indices of the physical volume of manufacturing production, Base: 1995=100, January 1990 to September 1999.</li> <li>P3041.4 -Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.</li> <li>Bulletin of Statistics.</li> <li>SA Statistics.</li> </ul>
Unpublished statistics	19	In some cases Stats SA can also make available statistics which are not published. The statistics can be made available as: computer printouts, diskette and CD. Generally a charge is made for providing unpublished statistics.

Rounding-off of figures	20	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	21	Stats SA has adopted the confidential pre-release policy in respect of selected economic indicators and specific government departments. The policy accords with practice among leading statistical agencies. The statistical integrity of the indices and strict observance of the release time has been assured by the following procedure:
	22	In respect of this statistical release, an official representative from the Office of the President, the Office of the Deputy President, the Department of Trade and Industry, the Department of Finance and the South African Reserve Bank receive a copy of the release on a strictly confidential basis two hours in advance of the public issue.
	23	Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za.
Symbols and		Stats SA Statistics South Africa
abbreviations		TBVC states Relates to the former Transkei, Bophuthatswana, Venda and Ciskei states
		SIC Standard Industrial Classification of all Economic Activities
		ISIC International Standard Classification of all Economic Activities

		SNA System of National Accounts
		PPI Production Price Index
		GDP Gross Domestic Product
		1/ Preliminary figures
		* Revised figures
Technical notes		
Response rates	See the respo B.	onse rates for April 2001, by manufacturing major divisions, in table

## Table B - Response rates for April 2001

Manufacturing major divisions	%
	response
Food and food products	80,4
Beverages	85,3
Textile	91,3
Total wearing apparel	82,8
Tanning and dressing of leather	73,3
Footwear	77,3
Wood and products of wood	66,4

Paper and paper products	89,2
Total publishing and printing	71,8
Coke and refined petroleum products	80,0
Basic chemicals	86,1
Other chemical products	85,0
Rubber products	81,8
Plastic products	75,3 61,5
Glass and glass products	92,3
Other non-metallic mineral products	74,8
Basic iron and steel products	83,3 67,5
Basic precious and non-ferrous metal products	66,7
Fabricated metal products	73,8
Total machinery and equipment	77,9
Electrical machinery, apparatus	66,3
Radio, television and communication apparatus	75,0
Professional equipment	65,5
Motor vehicles; trailers; parts and accessories	80,2
Other transport equipment	81,6
Furniture	88,9

Other manufacturing industries	
Total	78,7

Glossary		
Enterprise	An enterprise (firm) 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 (firm), 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 1995. 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 -
	<ul> <li>purchases and transfers-in of materials;</li> <li>payments to other establishments for work done;</li> <li>other direct factory costs;</li> <li>rent and leasing paid;</li> <li>head office charges;</li> </ul>
	<ul> <li>royalties, copyright, trade names and patent rights paid;</li> <li>advertising;</li> <li>insurance premiums;</li> <li>services; and</li> <li>secretarial and administrative fees.</li> </ul>
Output	Output is the aggregate value of goods manufactured and work done. Output includes -
	<ul> <li>sales and transfers-out of own manufactures, factory waste and stocks of factored</li> <li>goods;</li> <li>repairs;</li> <li>installation, erection and assembly;</li> <li>sundry trading revenue;</li> <li>subset of factored emission envelopes of factored evelopes</li> </ul>
	<ul> <li>sales of factored goods minus purchases of factored goods;</li> <li>rent and leasing received;</li> <li>royalties received;</li> <li>difference between opening value and closing value of work in progress, stocks of own</li> </ul>

	<ul> <li>manufactures and stocks of factored goods;</li> <li>head office charges; and</li> <li>other revenue.</li> </ul>
	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.

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