

Dipalopalo tsa Aforika Borwa • Statistieke Suid-Afrika • Tistatistiki ta Afrika-Dzonga • Ukuqokelelwa kwamanani eNingizimu Afrika

Manufacturing: production and sales

September 2003

Co-operation between Statistics South Africa (Stats SA), the citizens of the country, the private sector and government institutions is essential for a successful statistical system. Without continued co-operation and goodwill, the timely release of relevant and reliable official statistics will not be possible.

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

This data in this statistical release adheres to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), which sets out standards on coverage, periodicity and timeliness of data; access by the public; integrity; and quality of the disseminated data.

Embargo: 13:00

Date: 11 November 2003

Private Bag X44 • Pretoria 0001 • South Africa

Tel: +27(12) 310 8911

Email address: info@statssa.gov.za

• 170 Andries street • Pretoria 0002 Fax: +27(12) 321 7381



Website: www.statssa.gov.za

Key figures as at the end of September 2003

Actual estimates	September 2003	% change between September 2002 and September 2003	% change between August 2003 and September 2003	% change between July 2002 to September 2002 and July 2003 to September 2003	% change between January 2002 to September 2002 and January 2003 to September 2003
Physical volume of manufacturing production index (2000=100)	109,0	-3,6	+2,5	-3,5	-2,1
Total value of sales of manufactured products					
(R million)	52 933,4	-4,2	+2,4	-2,8	+1,3

Seasonally adjusted estimates	September 2003	% change between September 2002 and September 2003	% change between August 2003 and September 2003	% change between April 2003 to June 2003 and July 2003 to September 2003
Physical volume of manufacturing production index (2000=100)	105,8	-3,5	+1,3	+0,2
Total value of sales of manufactured products (R million)	51 756,5	-4,0	+1,6	+1,4

Key findings as at the end of September 2003

Manufacturing production increases

Manufacturing production for the third quarter of 2003 reflected a marginal increase of 0,2%, after seasonal adjustment, compared with the second quarter of 2003. Higher production was reported by 14 of the 27 manufacturing divisions. Furthermore, the manufacturing production for September 2003, after seasonal adjustment, reflected an increase of 1,3% compared with August 2003. However, the actual manufacturing production for the first nine months of 2003 reflected a decrease of 2,1% compared with the first nine months of 2002.

The major contributor to the increase of 0.2%, after seasonal adjustment, in the total manufacturing production was the food and food products division (contributing +0.6 of a percentage point to total manufacturing production), followed by the motor vehicles, trailers, parts and accessories (contributing +0.5 of a percentage point) and total machinery and equipment (contributing +0.3 of a percentage point) divisions. However, these increases were partially counteracted by large decreases reported by the basic iron and steel products (contributing -0.7 of a percentage point) and fabricated metal products (contributing -0.3 of a percentage point) divisions (see table A).

Figure 1 – Index of the physical volume of manufacturing production

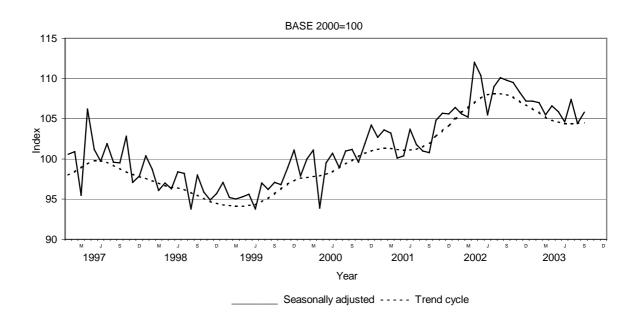


Table A - Contribution of the production by the different manufacturing divisions to the total manufacturing production (Base 2000=100)

	Percentage	Average	Quarterly	Contribution
Manufacturing	contribution	seasonally	percentage	(percentage
Divisions	to the total	adjusted	change of	points) to
İ	manufacturing	production	July 2003	the seasonally
i	production	index for	to	adjusted
	using the	the three	September 2003	
İ	weights	months	compared	percentage
İ	according to		with the	change in total
İ	1996 Census	to	preceding	manufacturing
		September 2003		production
İ	Manufacturing		months	1/
Food and food products	10,7	105,9	+6,0	+0,6
Beverages	4,6	117,1	+2,0	+0,1
Total textiles	2,9	92,2	-3,5	-0,1
Total wearing apparel	3,6	98,9	+2,7	+0,1
Tanning and dressing of leather	0,4	98,7	+2,7	+0,1
Footwear	0,9	78,3	+11,7	+0,1
Wood and products of wood	1,9	106,2	-2,0	-0,1
Paper and paper products	5,3	98,0	+1,0	+0,1
Total publishing and printing	4,1	99,4	-1,2	-0,1
Coke and refined petroleum				
products	4,2	106,1	+4,0	+0,2
Basic chemicals	4,5	105,8	-2,1	-0,1
Other chemical products	6,2	105,9	+0,5	+0,0
Rubber products	1,4	100,6	-1,7	-0,0
Plastic products	3,1	119,4	-2,8	-0,1
Glass and glass products	1,0	119,5	+5,1	+0,0
Other non-metallic mineral			- ,	, ,
products	3,5	93,5	-7,0	-0,2
Basic iron and steel products	7,6	100,5	-9,0	-0,7
Basic precious and non-ferrous	,	,	,	,
metal products	3,2	100,0	-0,6	-0,0
Fabricated metal products	7,0	112,4	-3,8	-0,3
Total machinery and equipment	5,8	126,9	+5,3	+0,3
Electrical machinery, apparatus		106,2	+1,2	+0,0
Radio, television and	,		,	,
communication apparatus	1,0	69,3	-18,3	-0,2
Professional equipment	0,5	115,0	-4,6	-0,0
Motor vehicles; trailers;	1	,	-, -	,,,
parts and accessories	8,0	113,8	+5,9	+0,5
Other transport equipment	1,0	102,1	+5,1	+0,1
Furniture	1,6	106,8	+4,1	+0.1
Other manufacturing divisions	2,6	92,4	-8,0	-0,2
Total	100,0	105,9	+0,2	+0,2
	•			

^{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 increase

The total value of sales of manufactured products at current prices for the third quarter of 2003 reflected an increase of 1,4% (+R2 106 million), after seasonal adjustment, compared with the second quarter of 2003. Higher manufacturing sales were reported by 16 of the 27 manufacturing divisions during this period (table B). Furthermore, the actual value of sales of manufactured products at current prices for the first nine months of 2003 reflected an increase of 1,3% compared with the first nine months of 2002. However, the actual total value of sales of manufactured products at current prices for the third quarter of 2003 reflected a decrease of 2,8% (-R4 440 million) compared with the third quarter of 2002. Lower manufacturing sales were reported by 16 of the 27 manufacturing divisions (table C).

The increase of 1,4% after seasonal adjustment in the total value of sales of manufactured products at current prices for the third quarter of 2003 compared with the second quarter of 2003 was mainly due to large increases reported by the total machinery and equipment (+5,0% or +R352 million), the motor vehicles, trailers, parts and accessories (+4,6% or +R890 million), and food and food products (+1,9% or +R388 million) divisions (see table B).

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

	Seaso	nal	Ly	Percentage	Differ	ence in
Manufacturing	adju	ste	Ē	change	seaso	nally
Divisions	i sa	les		between	adju	sted
	July	200)3	April 2003	sale	s of
	İ	.0		to	manufa	
	Septem	ber	2003	1		sions
	i			and	bet	ween
	İ			July 2003	Apri	1 2003
	İ			to		to
	İ			September 200	3 June	2003
	İ			-	and	d
	İ			İ	July	2003
	İ			İ	į t	
	İ			İ	Septem	oer 2003
	į R	2'000)	İ	R	'000
Food and food products	21	010	794	+1,9	387	854
Beverages	7	584	136	+1,3	100	832
Total textiles	3	022	252	-3,8	-119	511
Total wearing apparel	3	257	538	+4,1	127	137
Tanning and dressing of leather	İ	806	980	+9,3	68	644
Footwear	İ	522	248	+4,9	24	437
Wood and products of wood	3	333	977	-2,4	-80	508
Paper and paper products	7	376	400	+0,6	41	383
Total publishing and printing	3	861	627	+0,7	26	703
Coke and refined petroleum	İ					
products	9	012	610	-0,2	-14	396
Basic chemicals	7	519	651	+2,7	198	124
Other chemical products	9	134	833	+0,9	77	403
Rubber products	1	666	715	-4,2	-72	216
Plastic products	3	943	156	-0,9	-34	051
Glass and glass products		891	314	+7,5	62	058
Other non-metallic mineral						
products	3	671	532	-0,1	-4	019
Basic iron and steel products	13	394	986	+0,4	50	270
Basic precious and non-ferrous						
metal products	1		025	+4,7		312
Fabricated metal products	1		561	-1,7	-154	
Total machinery and equipment			310	+5,0	352	371
Electrical machinery, apparatus	4	398	177	+0,8	37	011
Radio, television and						
communication apparatus	1		507	-16,1	-200	
Professional equipment		501	562	-5,2	-27	651
Motor vehicles; trailers;						
parts and accessories	!		184	+4,6		733
Other transport equipment	!		468	-1,8		345
Furniture	1		791	-0,1		673
Other manufacturing industries	4	495	185	+3,9	167	367
Total	154	605	520	+1,4	2 105	695

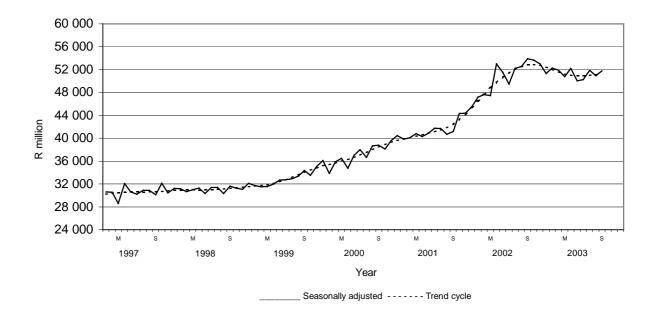
The major contributors to the decrease of 2,8% in the actual value of sales of manufactured products at current prices for the third quarter of 2003 compared with the third quarter of 2002 were the coke and refined petroleum products (-1,9 percentage points or -R3 017 million), basic chemicals (-0,4 of a percentage point or -R670 million) and basic precious and non-ferrous metal products (-0,4 of a percentage point or -R654 million), paper and paper products (-0,3 of a percentage point or -R481 million) and total textile (-0,3 of a percentage point or -R457 million) divisions. However, these decreases were partially counteracted by increases reported by the beverage (+0,4 of a percentage point or +R639 million) and total machinery and equipment (+0,4 of a percentage point or +R628 million) divisions.

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

!	Percentage	Percentage	Contribution	Difference
Manufacturing	contribution	change	(percentage	in sales of
!	to total value	between	points)	manufacturing
	of sales of	July 2002	to the	divisions
	manufactured	to	percentage	between
	products	September 2002	change in	July 2002
!	July 2002	and	the total	to
	to	July 2003	value of	September 2002
	September 2002	to	sales of	and
		September 2003		
			products 1/	
				September 2003
!				
				R'000
Food and food products	13,1	-1,0	-0,1	-217 066
Beverages	4,1	9,8	0,4	638 713
Total textiles	2,3	-12,5	-0,3	-456 601
Total wearing apparel	2,0	3,8	0,1	124 284
Tanning and dressing of leather		-9,9	-0,0	-84 131
Footwear	0,4	-6,3	-0,0	-38 774
Wood and products of wood	2,1	3,0	0,1	99 500
Paper and paper products	4,9	-6,1	-0,3	-480 884
Total publishing and printing	2,2	8,9	0,2	317 398
Coke and refined petroleum				
products	7,6	-24,8	-1,9	-3 017 346
Basic chemicals	5,1	-8,2	-0,4	-669 786
Other chemical products	5,7	0,5	0,0	48 535
Rubber products	1,1	-1,2	-0,0	-20 488
Plastic products	2,5	0,6	0,0	25 641
Glass and glass products	0,6	3,8	0,0	34 183
Other non-metallic mineral				
products	2,5	-2,2	-0,1	-89 005
Basic iron and steel products	8,3	-0,7	-0,1	-95 702
Basic precious and non-ferrous				
metal products	3,4	-11,9	-0,4	-653 952
Fabricated metal products	5,8	0,2	0,0	15 484
Total machinery and equipment	4,4	8,9	0,4	628 253
Electrical machinery, apparatus	2,7	2,2	0,1	98 639
Radio, television and				
communication apparatus	0,7	-9,2	-0,1	-104 070
Professional equipment	0,3	-3,4	-0,0	-17 892
Motor vehicles; trailers;				000 005
parts and accessories	13,1	-1,3	-0,2	-282 873
Other transport equipment	0,7	-13,4	-0,1	-147 644
Furniture	1,2	2,4	0,0	44 952
Other manufacturing divisions	2,8	-3,1 	-0,1	-139 745
Total	100,0	-2,8	-2,8	-4 440 377

^{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



pp P J Lehohla Statistician-General

Contents

		Page
Notes		7
•••••		
Tables		
Table 1	Indices of the physical volume of manufacturing production: Total	8
Table 2	Indices of the physical volume of manufacturing production according to manufacturing divisions and major groups	9
Table 3	Value of sales of the manufacturing industry: Total (R'000)	10
Table 4	Value of sales of manufactured products according to manufacturing divisions and major groups (R'000)	11
Table 5	Value of unfilled orders according to selected manufacturing subgroups (R'000)	12
Addition	al information	
Explanat	ory notes	13
		17
Table D	Weights and the average indices of physical volume of manufacturing production according to manufacturing divisions and major groups before re-basing.	19
For more	e information	20

Notes

Forthcoming issues	Issue	Expected release date
	October 2003 November 2003 December 2003	9 December 2003 13 January 2004 10 February 2004
Purpose of the survey	private establishments, pub manufacturing industry in the calculate physical volume or	g Production and Sales survey is a survey covering a sample of lic corporations and government establishments operating in the he South African economy. The results of this survey are used to f manufacturing production indices in order to estimate the Gross monitor and develop government policy.
Response rates	The response rate for the su 84,3% and for September	rvey on manufacturing production and sales for August 2003 was 2003 it was 80,5 %.

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

Base 2000 = 100

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	108,0*
A	101,9	95,6	97,7	102,5	102,6	111,9	106,3
S	104,3	102,3	100,9	104,8	104,0	113,1	109,0 1
0	115,2	106,9	107,3	109,8	115,5	120,6	
N	107,9	105,5	109,9	113,6	118,1	121,1	
D	83,5	81,8	86,3	89,5	91,3	92,6	
Year	100,3	96,9	96,4	100,0	102,8	108,2	
			 S	easonally adju			
J	 100,6	100,4	97,1	97,8	102,3	106,0	107,2
F	100,9	98,7	95,2	100,1	103,5	105,8	107,0
M	95,5	96,1	95,1	101,5	103,6	105,6	105,5
A	106,2	97,0	95,2	93,7	99,9	111,7	106,6
M	101,2	96,3	95,6	99,6	100,4	110,4	105,9
J	99,7	98,5	93,9	101,0	104,0	105,7	104,6
	101,9	98,2	97,0	99,0	101,8	109,0	107,4
J		93,8	96,2	101,0	100,9	109,8	104,4
J A	99,5	93,8					
	99,5 99,5	98,0	97,1	101,2	100,6	109,6	105,8
A				101,2 99,5	100,6 104,8	109,6 109,5	105,8
A S	99,5	98,0	97,1				105,8

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

Base 2000 = 100

			Base 200					
 Manufacturing	 	 		ual indice	s	Seasonal	ly adjuste	ed indices
	 Weights	 Year		 -	1/			
and major groups			September	August	September	September	August	September
	İ	2002						
 	 	İ 	' 	20 		i	200	
Food and food products	10,7	101,6	101,6	95,6	107,7 113,4 101,4 111,5 104,1 115,3	101,8	97,6	107,8
Meat, fish, fruit etc.	2,8	113,1	111,3	111,0	113,4	114,0	116,1	116,2
Dairy products	1,4	100,7	100,5	97,2	101,4	98,5	93,6	99,4
Grain mill products	2,1	113,6	114,2	106,0	111,5	111,3	105,6	108,4
Other food products	4,4	88,7	89,8	80,2	104,1	90,4	83,0	104,8
Beverages	4,6	112,4	115,5	112,5	115,3	112,7	119,9	112,6
TOCAL CCACILCD	2,9	1111,6	115,6	97,9	93,5	110,6	91,5	90,1
Textiles	1,7	1110,4	117,8	92,6	87,7	111,1	84,7	83,4
Other textile products	1,2	1113,3	112,5	105,4	101,6	109,8	101,1	99,6
Total wearing apparel	3,6	1111 2	109,5	104,9	104,9	101,4	97,6	97,4
Knitted, crocheted articles Wearing apparel	0,0	1111,2	110,1	100,2	101,5	110,7	97,5	102,6
wearing apparer Tanning and dressing of leather] 3,0	1 96 0	1 100,4	100,0	115,3 93,5 87,7 101,6 104,9 101,5 105,6 89,7 85,2 106,0 120,3 96,6 104,4 103,7 96,0 108,1	1 106 6	3/,/ 101 2	90,3 QE 0
Footwear	0,4 0 a	90,9	1 00,0	82 1	85 2	1 82 2	75 4	95,6 76.5
Wood and products of wood	1 1 0	1110 6	3±,7 116.6	111 2	106.0	1 112 2	107 2	102 7
Sawmilling and planing of wood	1,9 Ω Ω	110,0	1 10,0	115 0	120,0	113,2	110 0	114 8
Products of wood	1 1 2	1112 1	121 8	108 8	96 6	1119 5	105 6	94 8
Paper and paper products	5.3	103.1	121,0	94.0	104.4	114.8	96.7	99.7
Total publishing and printing	4.1	94.8	100,3	104.7	103.7	94.8	102.3	97.9
Publishing	1,5	91.3	87.9	104,2	96.0	86.4	102,2	94.6
Printing, recorded media	2.6	96.8	107.2	105.0	108,1	99.5	102.4	99.8
Coke and refined petroleum			,	, .			•	, .
products		102,5	99,4	105,2	96,1	105,6	104,8	102,3
Basic chemicals	4,5	119,1	125,5	108,3	103,7	124,4	109,4	103,0
Other chemical products	6,2	111,5	114,2	103,2	108,5	109,7	104,3	104,5
Rubber products	1,4	109,9	100,5	99,0	105,7	100,1	98,8	105,9
Plastic products	3,1	124,3	130,5	105,2 108,3 103,2 99,0 121,7 111,1	122,6	105,6 124,4 109,7 100,1 126,0	119,7	118,5
Glass and glass products	1,0	118,9	128,0	111,1	128,7	119,6	108,9	120,2
Other non-metallic mineral	<u> </u>							
products		104,5	114,2	93,8 104,1	97,9	107,3 111,7	90,1	91,9
Basic iron and steel products	7,6	106,0	112,2	104,1	104,8	111,7	99,3	104,1
Basic precious and non-ferrous								
metal products		100,8	100,6	103,7	99,3	101,9	99,7	100,9
Fabricated metal products		119,6	131,1	116,1	117,1	124,0	108,2	110,8
Structural metal products		116,8	127,5	115,0	109,6	119,0	104,1	102,3
Other fabricated metal product Total machinery and equipment	4,6	121,1	133,0	110,0	120,9	126,6 121.0	110,3	115,1
General purpose machinery		109,3	130,4	133,8	99,3 117,1 109,6 120,9 139,4 129,6 150,4 121,1 109,9	121,8	120,1	130,4
Special purpose machinery		133,4	126,0	155 0	150 /	110,0	145 0	112,0
Special purpose machinery Household appliances		109,4	1 107 2	101 /	101 1	135,0	111 6	140,5
Electrical machinery, apparatus			1 107,3	100 4	100 0	1 98 2	107 1	106 9
Radio, television and] 3,4	1 105,7	1 100,5	105,4	100,0] JO, Z	107,1	100,5
communication apparatus	1.0	76,8	85.4	59.2	80.8	77.2	57.7	73,2
Professional equipment		120,8	122.2	59,2 111,7	128,4	77,2 118,0	110.6	124,1
Motor vehicles; trailers;	0,5	, 5	,	,	, -	,	,	
parts and accessories	8,0	108,8	106,6	118,8	118,0	102,6	115,3	113,6
Motor vehicles		105,5	104,3	118,8 114,5	103,4	102,6 101,8	115,3 108,2	101,9
Bodies for motor vehicles;	i '	i '	İ			i		
trailers and semi-trailers	0,5	102,8	103,4	101,0	91,1	111,3	105,7	99,4
Parts and accessories	3,0	114,9	110,7	128,4	144,9	102,3	127,6	133,6
Other transport equipment	1,0	118,2	151,5	89,2	108,3	152,8	98,0	108,1
Furniture	1,6	107,3	111,2	108,0	104,5	107,5	106,3	102,6
Other manufacturing divisions	2,6	102,9	108,3	93,3	91,1 144,9 108,3 104,5 95,8	102,3	90,8	90,9
Total					109,0			
· 								

^{*} Revised 1/ Preliminary

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

Month	:	L997		:	1998		19	999		2	2000		:	2001		:	2002	*	:	2003	
										Actua	l vai	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		866			190				212		039			683			232				625*
A		438			758				208		651				090		747				612*
M		626			352				898		038				142		664				782*
J		575			723				424		710				527		265				744*
J		169			732				293		234			174			869				792*
A		400			810				437		992				534		370				505
S O		344 902			896 970				435 689		916 775			295 601			277 802		52	933	434 1,
N		709			300				424			507			825		092				
D		128			016				528		256				610		372				
Year	 368	283	280	373	568	657	397	608	593	448	106	023	502	499	271	613	533	065			
										Season	ally	adju	ısted	valı	ues						
 Ј	 l 30	493	 196	31	048	488	31	397	 279	33	836	330	39	712	049	47	169	 627	52	297	785
F		507			603				599			772	40	062	670			699	51	861	389
M	28	715	788	30	974	337	31	550	111	36	548	535	41	089	107	47	481	275	50	777	595
A	32	088	411	31	474	030	32	278	488	34	676	521	40	193	129	53	027	051	52	216	755
M		711			389				166		990			026			517			039	
J		216			248				842		023			800			485			243	
J		161			843				720		542			498			229			906	
A		755			351				335		537			590			553			942	
S		171			776				433		753				022		898		51	756	469
0		169			386			749			985				777		664				
N		307			783				597		433				774		980				
D	30	844	364	31	474	135	35	826	413	40	346	790	45	418	662	51	321	536			

^{*} Revised 1/ Preliminary

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

Manufacturing									valı						nally					ies	
divisions and major groups		Year		Ser		oer						er 1/	Se		mber					epter	mbeı
	 	2002	2	2	2002				20	003			2	2002		 		200	-		
Food and food products		673				038		938				980			524		953	773	7	044	
Meat, fish, fruit etc.		328		2	320		2		094	2	276		2		095	2		436	2	269	
Dairy products	1 .	221				000	-		820	-		661			125	- 1		758	-	864	
Grain mill products		465 658			975	797			454 069		935				886 418			022 557		955 954	
Other food products Beverages		913			298			355			565				681			511		530	
Beverages Total textiles		425				284			769		022				463		004			977	
Textiles		654		-		045			699		647				161			275		613	
Other textile products		771		i		239			070			413			302			306		363	
Total wearing apparel	1	404		1		730	1		517	1	159	898	1	037	146	1	089	816	1	074	32
Knitted, crocheted articles	2	200	044	İ	188	348			141		180			188				556		182	52
Wearing apparel	10	204	552	İ	936	382		959	376		979	270		848	165		898	260		891	80
Tanning and dressing of leather	3	310	031	ĺ	265	840		276	551		231	184		292	749			830		256	43
Footwear		185				711			937		197			185				353		175	79
Wood and products of wood		676		1		481	1			1			1		649	1			1	111	
Sawmilling and planing of wood		496		ļ		634			239			361			287			828		328	
Products of wood		180				847	_		843	_		197			362	_		052	_	783	
Paper and paper products		798				672					689				892					498	
Total publishing and printing		902		ļΤ		448	1		421	Τ	300		1		782	Τ			Τ	260	
Publishing		309 593				597 851			979 442		514	493			095 687			335 792		500 760	
Printing, recorded media Coke and refined petroleum	8	593	228	ŀ	780	821		834	442		/85	493		/50	08/		813	192		760	ΤŢ
products	1 45	408	216	2	850	056	2	016	320	2	106	015	2	999	E00	2	920	402	2	240	67
Basic chemicals	1 -	234				002			147		654				565			164		550	
Other chemical products		440				922		974			124				260		988			067	
Rubber products		678				425	_		210	_		667			613	_		273	_	554	
Plastic products	15	136	631	1	340	010	1	325	743	1	377	522	1	290	827	1	293	029	1	333	13
Glass and glass products		291		İ		514			669		321	606			343			144		294	24
Other non-metallic mineral	İ			İ																	
products	14	496	579	1	333	367	1	246	768		290		1	266	083	1	160	850	1	230	33
Basic iron and steel products	48	571	369	4	870	737	4	315	376	4	486	889	4	860	209	4	279	045	4	483	43
Basic precious and non-ferrous	ļ			ļ																	
metal products		725			856			587			815			743				674		703	
Fabricated metal products		231		3	180		3	067		3	083		3	035		2	848		2	955	
Structural metal products		580				131	_		741	_		962			785	- 1		913	_	879	
Other fabricated metal product Total machinery and equipment		651	792*		352	980			215 255		172 684		!		780 066			547 232		076	
General purpose machinery		502			111		2		167						152	2		604		983	
Special purpose machinery	1		713*			120	1		167		254		1		990	1		525	1	299	
Household appliances		732		-		022	_		921	-		440	_		924	-		103	-	248	
Electrical machinery, apparatus		926		1		575	1			1	492		1		542	1			1	437	
Radio, television and	i .			i																	
communication apparatus	4	503	712	İ	466	942		322	326		400	750		425	050		317	514		363	60
Professional equipment	2	028	861	ĺ	168	265		160	047		182	005		168	827		155	840		183	30
Motor vehicles; trailers;																					
parts and accessories	!	135				614		122			571				987			628		446	
Motor vehicles	56	136	383	4	850	822	5	033	101	4	491	856	4	792	604	4	902	138	4	464	01
Bodies for motor vehicles;																					
trailers and semi-trailers		115		-		091	-		712	-		307			058	-		212	-	189	
Parts and accessories	1	884		1		701	1			1	878		1		324	1			1	793	
Other transport equipment		370				981			723			951			338			766		311	
Furniture Other manufacturing divisions	!	339 749		1	471	906 499	1	416	292	1	463	953 968	1		324 991	1		930	1	599 542	
Total	613	533	065	55	277	787	51	694	505	52	933	434	53	898	585	50	942	418	51	756	46

^{*} Revised 1/ Preliminary

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

Actual values Seasonally adjusted values Selected manufacturing subgroups September August |September 1/ September August September 2002 2002 İ 2003 2003 Spinning, weaving and finishing of textiles 332 905 252 723 244 468 342 667 257 425 252 585 Tents, tarpaulins, sails and other canvas goods and automotive textile goods 42 464 91 147 46 191 87 678 40 581 48 565 91 381 46 070 43 923 111 424 101 573 Other textile articles 83 550 Knitted and crotcheted 119 008 fabrics and articles 147 125 122 282 143 850 128 318 Wearing apparel 921 839 621 193 643 294 845 423 623 477 592 447 Sawmilling and preserving 22 119 14 843 23 435 20 939 14 807 22 076 of timber Veneer sheets, plywood, laminboard, etc. 35 869 23 416 27 206 33 401 22 996 24 984 Builders' carpentry 40 462 219 778 39 313 42 190 43 060 40 232 44 159 and joinery Pulp, paper and paperboard 246 556 236 897 185 258 260 937 196 955 Corrugated paper and paper-391 559 board and containers 378 222 369 339 371 634 370 880 365 266 Paints, varnishes and coatings 23 515 23 756 24 745 22 098 26 401 23 755 Basic iron and steel products 5 097 481 5 178 555 5 256 001 4 883 650 4 951 425 5 025 488 Steel pipe and tube mills 523 359 309 692 281 653 546 644 294 577 295 914 Basic precious and non-1 373 151 1 784 057 1 383 349 1 348 989 1 814 329 1 372 152 ferrous metal products Metal structures, parts 1 442 136 915 987 891 512 1 381 238 885 742 849 856 Cutlery, hand tools and general hardware 35 764 35 896 15 124 18 442 15 278 24 154 Metal containers, e.g. cans and tins 70 814 69 142 67 243 70 071 68 219 66 629 63 574 Cables, wire products, springs Metal fasteners 82 951 90 832 62 533 83 258 80 233 90 021 77 830 82 024 90 292 89 532 84 365 All other metal products 887 418 1 024 719 1 075 894 908 768 1 035 415 1 105 327 Domestic appliances 31 330 28 042 29 651 28 426 27 312 26 806 Electric motors, generators 541 631 489 216 527 777 481 299 477 314 and transformers 511 139 296 516 323 528 Insulated wire and cables 307 404 434 131 315 252 410 173 Accumulators, primary cells and primary batteries 5 707 3 487 3 515 6 101 3 768 3 849 Television, radio and communication apparatus 2 102 473 2 210 805 2 252 615 2 139 571 2 178 242 2 294 551 3 984 131 Motor vehicles 2 717 378 3 970 510 3 702 928 2 638 641 3 583 894 Parts and accessories for motor vehicles 581 620 298 277 569 147 295 494 290 018 350 514 401 431 203 595 386 558 294 782 199 759

^{*} Revised

Additional information

1

Explanatory notes

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 (September 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 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 nonferrous 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.
- The results of the 1991, 1993 and 1996 Censuses of Manufacturing and information 14 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

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
Manufacturing divisions and major groups		Weights		Average indices for the year 2000
Manufacturing divisions and major groups	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

FOR MORE 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.

Stats SA has copyright on this publication. Users may apply the information as they wish, provided that they acknowledge Stats SA as the source of the basic data wherever they process, apply, utilise, publish or distribute the data; and also that they specify that the relevant application and analysis (where applicable) result from their own processing of the data.

Advance release calendar

An advance release calendar is disseminated on www/statssa.gov.za

Stats SA products

A complete set of Stats SA publications is available at the Stats SA Library and the following libraries:

National Library of South Africa, Pretoria Division
National Library of South Africa, Cape Town Division
Natal Society Library, Pietermaritzburg
Library of Parliament, Cape Town
Bloemfontein Public Library
Johannesburg Public Library
Eastern Cape Library Services, King William's Town
Central Regional Library, Polokwane
Central Reference Library, Nelspruit
Central Reference Collection, Kimberley
Central Reference Library, Mmabatho

Stats SA also provides a subscription service.

Electronic services

A large range of data are available via on-line services, diskette and computer printouts. For more details about our electronic data services, contact (012) 310 8600/8390/8351/4892/8496/8095.

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

Enquiries

Telephone number: (012) 310 8600/8390/8351/4892/8496/8095 (user information services)

(012) 310 8233/310 8669 (technical enquiries)

(012) 310 8161 (orders) (012) 310 8490 (library)

Fax number: (012) 310 8332 (technical enquiries)

Email address: Teresam@statssa.gov.za

Postal address: Private Bag X44, Pretoria, 0001

Produced by Stats SA