Manufacturing: production and sales P3041.2

June 2000 Embargo: 13:00 Date: 8 August 2000

Key figures as at the end of June 2000

Actual estimates	June 2000	% change between June 1999 and June 2000	% change between April 1999 to June 1999 and April 2000 to June 2000	% change between January 1999 to June 1999 and January 2000 to June 2000
Physical volume of manufacturing production index (1995=100)	110,8	+10,2	+5,0	+5,1
Total value of sales of manufactured products (R million)	38 495,1	16,3	+12,6	+12,8

Seasonally adjusted estimates	June 2000	% change between May 2000 and June 2000	% change between January 2000 to March 2000 and April 2000 to June 2000
Physical volume of manufacturing production index (1995=100)	108,6	+2,5	-0,8
Total value of sales of manufactured products (R million)	38 041,9	+1,9	+3,2

Key findings as at the end of June 2000

MANUFACTURING PRODUCTION DECREASES

Manufacturing production for the second quarter of 2000 reflected a decrease of 0,8% after seasonal adjustment compared with the first quarter of 2000. Lower manufacturing production was reported in 18 of the 27 manufacturing major divisions.

The major contributors to the decrease of 0,8% after seasonal adjustment in the total manufacturing production were the fabricated metal products (-0,6 of a percentage point), followed by the basic iron and steel (-0,4 of a percentage point), the motor vehicle (-0,4 of a percentage point), the machinery and equipment (-0,2 of a percentage point) and the furniture (-0,2 of a percentage point) divisions. However, these decreases were partially counteracted by increases in the basic chemicals (+0,6 of a percentage point), the beverages (+0,3 of a percentage point) and the basic precious and non-ferrous metal products (+0,3 of a percentage point) divisions (cf. Table A).

The total value of sales of manufactured products reflected an increase of 3,2% (R3 390 million) after seasonal adjustment for the second quarter of 2000 compared with the first quarter of 2000. The largest increases were reported by the coke and refined petroleum products (+18,0% or R1 164 million), the basic precious and non-ferrous metal products (+9,8% or R344 million) and the food and food products (+4,6% or R657 million) divisions during this period.

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

Manufacturing Divisions	tion to the total manu- facturing production in the base year 1995	seasonally adjusted production index for the three months	Quarterly percentage change (Apr. 2000 - Jun. 2000 compared with the preceding three months)	Contribution (percentage points) to the seaso- nally adjusted quarterly percentage change in total manufacturing production 1/
Food and food products	10,7	97,3	+0,5	+0,1
Beverages	4,6	98,9	+6,1	+0,3
Total textiles	2,9	94,8	-1,6	-0,1
Total Wearing apparel	3,6	86,0	-0,1	-0,0
Tanning and dressing of leather	0,4	127,7	+3,0	+0,0
Footwear	0,9	68,2	-3,7	-0,0
Wood and products of wood	1,9	120,0	+0,7	+0,0
Paper and paper products	5,3	104,0	+1,3	+0,1
Total publishing and printing	4,1	92,4	-1,9	-0,1
Coke and refined petroleum				
products	4,2	106,0	+0,5	+0,0
Basic chemicals	4,5	144,9	+14,1	+0,6
Other chemical products	6,2	102,8	+0,5	+0,0
Rubber products	1,4	97,7	-0,8	-0,0
Plastic products	3,1	85,2	-3,6	-0,1
Glass and glass products	1,0	82,4	+0,1	-0,0
Other non-metallic mineral				
products	3,5	87,5	-3,0	-0,1
Basic iron and steel products	7,6	114,2	-5,1	-0,4
Basic precious and non-ferrous				
metal products	3,2	168,1	+8,5	+0,3
Fabricated metal products	7,0	98,5	-7,8	-0,6
Total machinery and equipment Electrical machinery, apparatus	5,8	92,6 101,6	-3,5 -0,0	-0,2 -0,0
Radio, television and	3,4	101,6	-0,0	-0,0
communication apparatus	1,0	121,0	-5,1	-0.1
Professional equipment	0,5	73,6	-5,1 -6,2	-0,1
Motor vehicles; trailers;	1 0,5	13,0	-0,2	-0,0
parts and accessories	8,0	112,9	-4,5	-0.4
Other transport equipment	1,0	108,3	-3,1	-0,0
Furniture	1,6	93,9	-11,8	-0,2
Other manufacturing industries	2,6	103,7	-4,8	-0,2
TOTAL	100,0	104,4	-0,8	-0,8

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

Forthcoming issues	Issue	Expected release date
	July 2000	12 September 2000
	August 2000	10 October 2000
	September 2000	7 November 2000
	October 2000	12 December 2000
	November 2000	9 January 2001
	December 200	0 6 February 2001

Purpose of the survey

The 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 $$\tt Base\ 1995\ =\ 100$$

Month	1994	1995	1996	1997	1998	1999	2000
				Actual indices			
J	72,7	80,6	83,6	89,8	89,6	86,7	88,8
F	87,0	97,6	96,7	103,1	101,1	98,0	103,2
M	95,6	104,2	102,6	102,5	102,8	101,5	109,3
A	82,8	91,0	96,4	105,5	96,3	94,8	93,7*
M	84,8	101,8	104,1	106,2	101,1	101,1	106,7
J	92,4	102,4	102,9	104,9	104,5	100,5	110,8 1
J	92,9	101,7	104,7	108,2	104,4	104,3	
A	94,0	106,0	107,8	105,8	100,0	103,5	
S	100,9	106,7	105,2	108,3	106,8	107,0	
0	104,2	112,5	115,8	119,1	111,8	112,9	
N	108,2	110,7	114,4	111,7	109,8	115,5	
D	85,3	84,8	83,7	86,9	85,3	90,6	
Year	91,7	100,0	101,5	104,3	101,1	101,4	
			<u>s</u>	seasonally adjus	ted indices		
J	87,5	96,5	99,1	105,6	105,0	100,9	102,9
F	88,3	99,4	98,7	105,2	102,9	99,7	104,8
M	91,2	100,0	99,5	100,4	101,1	100,0	108,0
A	88,6	97,2	102,1	111,2	101,4	99,6	98,7
M	85,4	101,8	104,1	105,6	100,2	100,4	106,0
J	91,4	101,2	101,4	103,1	102,5	98,6	108,6
J	91,6	99,9	102,4	105,5	101,6	101,5	
A	90,9	102,7	104,5	102,9	97,6	101,3	
S	95,8	101,5	100,2	103,1	102,1	102,6	
0	94,0	101,1	103,1	105,9	99,7	100,7	
N	97,2	99,8	103,2	101,2	99,8	105,3	
D	98,1	98,2	98,8	102,4	101,0	108,0	

^{*} Revised 1/ Preliminary

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

Base 1995 = 100

				95 = 100				
Manua Faratana Iana	 		Act	ual indice	es	Seasonal	ly adjuste	d indices
Manufacturing divisions and major groups	 Weights 	į į	June	 May	 June 1/	 June	 May	 June
 	 		1999	20	000	1999	200	
Food and food products	10,7	99,2			104,9 106,1 80,2			101,3
Meat, fish, fruit etc.		112,4	104,2	116,7	106,1	112,8	115,5	115,1
Dairy products	1,4		83,7	75,8	80,2	92,0	81,3	87,8
Grain mill products	2,1							97,5
Other food products	4,4	95,3	112,8	96,3	115,7	96,4	87,5	98,5
Beverages Total textiles	2,9	100,8 91,3	86,8	02,9	115,7 94,6 102,3 96,5 110,6	1 22,0	0/,4	98,5 110,1 99,2 92,9
Textiles		83,8	84,0	88.4	96.5	1 81.1	86,7	92,9
Other textile products		101,9	100,3	112.0	110.6	98.8	106.1	108.1
Total wearing apparel		88,3	77.9	83.5	79.8	87.9	88.7	90.0
Knitted, crocheted articles	0,6	82,5	79,1	88,1	85,1	76,0	80,2	82,1
Wearing apparel	3,0	89,5	77,6	82,6	79,8 85,1 78,7 122,7 66,1 124,7 107,7	90,2	90,4	91,6
Tanning and dressing of leather	0,4	122,9	123,2	153,7	122,7	123,3	145,6	122,7
Footwear	0,9	69,2	68,1	64,1	66,1	70,3	67,8	67,8
Wood and products of wood		114,1	115,1	123,4	124,7	115,0	125,1	124,4
Sawmilling and planing of wood		104,2	103,0	105,5	107,7	102,9	109,5	107,5
Products of wood		120,6	123,0	135,2	135,8	123,0	135,3	135,5
Paper and paper products		98,2	98,9	113,3	106,2	93,6	114,8	
Total publishing and printing		93,1	89,5	91,9 94,5	92,2		91,8	93,8
Publishing	1,5						97,4	95,1
Printing, recorded media Coke and refined petroleum	2,6	-	85,4	•	89,9	į ·	88,6	93,1
products Basic chemicals		106,4			112,1		106,1	110,1
Other chemical products		126,9 103,3		96,1	151,7 104,1		159,0 99,5	147,9 104,8
Rubber products		92,8		114,0	119,1		112,7	104,8
Plastic products	3,1		86,1	84,2	87,1	85,9	86,9	86,9
Glass and glass products	1,0	85,2	84,9	74,7	87,4		80,2	80,1
Other non-metallic mineral products	3,5	-	-	89,2	95,8		88,0	88,4
Basic iron and steel products	7,6	96,9	90,1 98,3		119,9		116,5	112,4
Basic precious and non-ferrous		,-	,-	,-	,	i,-	,	,-
metal products		153,3	153,8	164,9	180,2	154,1	164,7	179,1
Fabricated metal products	7,0	99,1		104,4		93,5	103,2	107,2
Structural metal products	2,4	95,9	84,0	95,7	79,9	793	91,9	76,0
Other fabricated metal product	4,6	100,8	97,4	108,9	119,2	100,8	109,0	123,2
Total machinery and equipment		97,5		97,8	104,5	99,7	96,1	100,5
General purpose machinery		111,5			121,3		94,8	104,2
Special purpose machinery	2,9	84,4		92,9	85,9	!	95,9	93,0
Household appliances		105,3				112,6		132,2
Electrical machinery, apparatus Radio, television and	į	96,5		,_		89,5 	101,4	109,4
communication apparatus		126,9	140,7	110,8	123,1		101,1	114,7
Professional equipment	0,5	77,9	80,5	81,5	74,0	76,4	78,8	70,4
Motor vehicles; trailers;	0.0	102 5	100 3	122 7	120 4	l I 100 0	117 1	100 -
parts and accessories		102,5	108,3	122,7	-	100,9	117,1	120,5
Motor vehicles Bodies for motor vehicles;	1 4,5	97,0	109,8	116,0	123,5	97,9	107,3	109,6
trailers and semi-trailers	0.5	64,3	55,8	71,3	72,0	 54,8	74,0	70,8
Parts and accessories		117,7		142,1			-	146,0
Other transport equipment		113,1				110,6	139,7 107,4	110,8
Furniture		102,6	110,9	94,3		107,4	96,9	102,6
Other manufacturing industries		107,7	107,0	102,8		105,5	102,6	110,4
TOTAL	100,0		100,5	106,7	110,8		106,0	108,6

^{*} Revised 1/ Preliminary

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

Month	l ⁻	L994 			L995 	ا 	19	96			1997 	ا 	:	 1998			T333	* 	1	2000	
										Actua		lues									
J	16	267	098	19	206	220	21			25	254		25					458		426	939*
F	19	815	926			317								901	544	30				030	754*
M	22	056	191			878	28					272			538					936	272*
A			660			368			967			604			879						412*
M	19	723	817	25	806	431	28	293	052	30	626	091	30	352	835	32	711	351	37	187	406
J	22	055	323	26	204	689	28	261	416	30	575	542	31	723	893	33	095	019	38	495	142
J			097			126			392			707			667			049			
A	21	957	670	27	064	919						042			619			678			
S	23	954	300			968							32					489			
0	25	209	944	29	294	559	33	070	022	35	902	602	34	970	472	37	387	455			
	26	275	416			074										38					
N			319	23	877	458	26	338	721	28						33					
	20																				
D										368					657	398	319	486			
									803		283	280	373	568	657	398	319	486			
D Year 	259	366	761	308	790	007	339	096	803	368 Season	283 ally	280 adju	373 usted	568 valı	657 ies	398	319	486			
D Year 	259	366 822	761 945	308	790 563	007 328	339 26	096 504	803 927	368 Seasona 30	283 ally 671	280 adju	373 isted 31	568 valu	657 les 961	398 31	319 844	486 236	34	183	362
D Year J F	259	366 822 118	761 945 754	308 23 24	790 563 784	007 328 063	339 26 26	096 504 815	927 720	368 Season 30 30	283 ally 671 523	280 adju 683 802	373 sted 31 30	568 valu 298 626	657 les 961 986	398 31 31	319 844 440	486 236 112	34 35	183 922	688
D Year J F	259 259 19 20 20	366 822 118 746	761 945 754 106	308 23 24 25	790 563 784 290	328 063 552	339 26 26 26	096 504 815 875	927 720 830	368 Season 30 30 28	283 ally 671 523 720	280 adju 683 802 370	373 sted 31 30 31	568 valu 298 626 008	657 les 961 986 385	398 31 31 31	319 844 440 646	236 112 910	34 35 36	183 922 578	688 889
D Year J F M	259 19 20 20 20	366 822 118 746 330	761 945 754 106 032	308 23 24 25 24	790 563 784 290 288	007 328 063 552 834	339 26 26 26 26 27	096 504 815 875 735	927 720 830 126	368 Season 30 30 28 32	283 ally 671 523 720 111	280 adju 683 802 370 542	373 isted 31 30 31 31	568 valu 298 626 008 401	657 es 961 986 385 947	398 31 31 31 31 32	319 844 440 646 210	486 236 112 910 385	34 35 36 34	183 922 578 710	688 889 594
D Year J F M A	259 259 19 20 20 20	366 822 118 746 330 159	761 945 754 106 032 829	308 23 24 25 24 26	790 563 784 290 288 152	328 063 552 834 290	339 26 26 26 26 27 28	504 815 875 735 462	927 720 830 126 031	368 Season 30 30 28 32 30	283 ally 671 523 720 111 755	280 adju 683 802 370 542 957	373 isted 31 30 31 31 30	568 valu 298 626 008 401 418	657 les 961 986 385 947 085	398 31 31 31 32 32	319 844 440 646 210 830	236 112 910 385 141	34 35 36 34 37	183 922 578 710 322	688 889 594 406
D Year J F M A	259 19 20 20 20 20 21	366 822 118 746 330 159 901	761 945 754 106 032 829 069	308 23 24 25 24 26 25	790 563 784 290 288 152 980	328 063 552 834 290 567	339 26 26 26 26 27 28 28	096 504 815 875 735 462 057	927 720 830 126 031 138	368 Season 30 30 28 32 30 30	283 ally 671 523 720 111 755 294	280 adju 683 802 370 542 957 752	373 usted 31 30 31 31 30 31	568 valu 298 626 008 401 418 364	657 les 961 986 385 947 085 378	398 31 31 31 32 32 32	319 844 440 646 210 830 780	236 112 910 385 141 266	34 35 36 34 37	183 922 578 710 322	688 889 594
D Year J F M A M J J	259 19 20 20 20 20 21	366 822 118 746 330 159 901 154	761 945 754 106 032 829 069 742	308 23 24 25 24 26 25 25	790 563 784 290 288 152 980 488	328 063 552 834 290 567 995	339 26 26 26 27 28 28 28	096 504 815 875 735 462 057 271	927 720 830 126 031 138 531	368 Season 30 30 28 32 30 30 30	283 ally 671 523 720 111 755 294 943	adju 683 802 370 542 957 752 415	373 isted 31 30 31 31 30 31 31	298 626 008 401 418 364 487	657 961 986 385 947 085 378 011	398 31 31 31 32 32 32 32 32	319 844 440 646 210 830 780 080	236 112 910 385 141 266 640	34 35 36 34 37	183 922 578 710 322	688 889 594 406
D Year J F M A M J J	259 259 19 20 20 20 21 22 21	366 822 118 746 330 159 901 154 214	761 945 754 106 032 829 069 742 961	308 23 24 25 24 26 25 25 25 26	790 563 784 290 288 152 980 488 205	328 063 552 834 290 567 995 652	339 26 26 26 27 28 28 28 28	096 504 815 875 735 462 057 271 794	927 720 830 126 031 138 531 895	368 Seasons 30 30 28 32 30 30 30 30	283 ally 671 523 720 111 755 294 943 704	280 adju 683 802 370 542 957 752 415 526	373 isted 31 30 31 31 30 31 31 30	298 626 008 401 418 364 487 313	657 les 961 986 385 947 085 378 011 713	398 31 31 31 32 32 32 33 33	319 844 440 646 210 830 780 080 265	236 112 910 385 141 266 640 835	34 35 36 34 37	183 922 578 710 322	688 889 594 406
D Year J F M A M J J A	259 259 19 20 20 20 21 22 21 22	366 822 118 746 330 159 901 154 214 751	761 945 754 106 032 829 069 742 961 500	308 23 24 25 24 26 25 25 26 26 26	790 563 784 290 288 152 980 488 205 485	328 063 552 834 290 567 995 652 336	339 	096 504 815 875 735 462 057 271 794 265	927 720 830 126 031 138 531 895 536	368 Seasons 30 30 28 32 30 30 30 30 30	283 ally 671 523 720 111 755 294 943 704 022	280 adju 683 802 370 542 957 752 415 526 490	373 sted 31 30 31 30 31 30 31 30 31 31 30 31	568 vali 298 626 008 401 418 364 487 313 550	657 1es 961 986 385 947 085 378 011 713 908	398 31 31 32 32 32 32 33 33 34	319 844 440 646 210 830 780 080 265 556	236 112 910 385 141 266 640 835 842	34 35 36 34 37	183 922 578 710 322	688 889 594 406
D Year J F M A M J J A S	259 29 20 20 20 20 21 22 21 22	366 822 118 746 330 159 901 154 214 751 677	761 945 754 106 032 829 069 742 961 500 057	308 23 24 25 24 26 25 25 26 26 26 26	790 563 784 290 288 152 980 488 205 485 203	007 328 063 552 834 290 567 995 652 336 864	339 	096 504 815 875 735 462 057 271 794 265 541	927 720 830 126 031 138 531 895 536 787	368 Season 30 30 28 32 30 30 30 30 30 30 30 30 30 30	283 ally 671 523 720 111 755 294 943 704 022 058	280 adju 683 802 370 542 957 752 415 526 490 045	373 sted 31 30 31 31 30 31 31 31 31 30 31	568 value 298 626 008 401 418 364 487 313 550 160	657 961 986 385 947 085 378 011 713 908 821	398 31 31 31 32 32 32 33 33 34 33	319 844 440 646 210 830 780 080 265 556 372	236 112 910 385 141 266 640 835 842 406	34 35 36 34 37	183 922 578 710 322	688 889 594 406
D Year J F M A M J J A	259 29 20 20 20 21 21 21 22 22 23	366 	761 945 754 106 032 829 069 742 961 500 057	308 23 24 25 24 26 25 25 26 26 26 26	790 563 784 290 288 152 980 488 205 485 203 874	328 063 552 834 290 567 995 652 336	339 26 26 26 27 28 28 28 28 28 29	096 504 815 875 735 462 057 271 794 265 541 756	927 720 830 126 031 138 531 895 536 787 822	368 Season 30 30 30 28 32 30 30 30 30 30 30 30 30 30 30 30 30 30	283 ally 671 523 720 111 755 294 943 704 022 058 352	280 adju 683 802 370 542 957 752 415 526 490 045 312	373 sted 31 30 31 30 31 30 31 30 31 31 30 31	568 vali 298 626 008 401 418 364 487 313 550 160 889	657 961 986 385 947 085 378 011 713 908 821 701	398 31 31 31 32 32 32 33 33 34 33 35	319 844 440 646 210 830 780 080 265 556 372 047	236 112 910 385 141 266 640 835 842 406	34 35 36 34 37	183 922 578 710 322	688 889 594 406

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

Manufacturing divisions	l I	Year		!	ıne			 ay				1/		June			fay		: Ji		
and major groups	i																				
	İ	1999	•	j :	L999		i		2	000			:	L999		i 		2000)		
Food and food products	57											309						900			
	17			1		238	1		143	1		497			552	1		192	1	534	
	7					855			255			156			976			125		603	
	14											834			891					363	
	17											822						374			
	20			1			1			1		634							1		
Total textiles Textiles	9	304				715 317			933 866			183 843			020 013			947 282		901 571	
Other textile products		465				398			067			340			007			665		330	
Other textile products Total wearing apparel		994				826			641			309			331			034		992	
	1 1					210			397			395			405			420		159	
Wearing apparel		135				616			244			914			926			614		832	
wearing appare: Fanning and dressing of leather		577				526			761			678			847		236			249	
Footwear		379				481			307			044			928			121		199	
Wood and products of wood		386				691			600			812			491			017		732	
Sawmilling and planing of wood		380				020			994			617			767			683		217	
Products of wood		005				671			606			195			724			334		514	
Paper and paper products		400		1		791	1			1		953	1			1		814	1		
Total publishing and printing		664				573			240			084						588			
Publishing		471				167			267			048			256			282		368	
Printing, recorded media	7	193	856		544	406		617	973		605	036		576	849		619	306		642	151
Coke and refined petroleum	i																				
products	20	999	687	1	806	952	2	394	185	2	815	023	1	734	831	2	481	833	2	688	847
Basic chemicals	19	872	911	1	576	030	1	875	869	2	096	340	1	530	278	1	961	783	2	050	831
Other chemical products	25	490	045	1	995	748	2	134	951	2	154	800	2	047	823	2	207	704	2	232	906
Rubber products	4	167	229		355	430		416	300		473	817		326	183		411	800		436	010
Plastic products	9	723	276		789	106		866	866		882	368		802	746		885	911		897	176
Glass and glass products	2	140	820		160	065		165	856		181	918		161	526		180	806		183	845
Other non-metallic mineral																					
products		255				494			338			869			002			225			494
Basic iron and steel products	26	056	845*	2	298	014	3	095	543	3	035	253	2	083	253	2	947	569	2	758	004
Basic precious and non-ferrous																					
metal products		107				045			933						404		283			359	
Fabricated metal products		450		1		147	2		633	2	032		1		185	2		910	1	988	
Structural metal products		375		_		760	_		930	_		397	_		130	_		276	_	537	
Other fabricated metal product												221						634			
Total machinery and equipment		482		1			1			1		604	1			1		783	1		
General purpose machinery		715				963			938			055			755			350		698	
Special purpose machinery		839				488			472			309			983			805		673	
Household appliances		926				375			707			240			924			628	-	199	
Electrical machinery, apparatus	1 11	635	/15		949	263	1	074	624	1	181	271		914	907	1	046	721	T	145	418
Radio, television and	4	441	206		420	320		201	716		202	419		207	799		400	282		360	277
communication apparatus Professional equipment	:	299				314			475			235			182			282 892		109	
Motor vehicles; trailers;	! +	433	943		119	214		111	4/3		120	233		109	102		109	052		TOB	33/
parts and accessories	42	719	836	3	656	522	4	427	632	4	704	490	3	482	548	4	206	332	4	487	710
Motor vehicles		465							813						940			369			
Bodies for motor vehicles;	33	103		-	J, 1	,,,	,	100	013	3	505	,,,,	-	505	J-10	-	,,,	505	,	-,-	257
trailers and semi-trailers	1 1	529	083		118	046		161	401		162	815		115	052		155	001		157	688
Parts and accessories		724				700	1			1						1		968	1		
ther transport equipment		789				906	_		594	_		498			597	-		727	-	237	
Furniture		356				605			848			439			476			861		577	
Other manufacturing industries							1			1		139				1		311	1		
				33								142									
	1333	519																			

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

communication apparatus	1		696	848	1	103	022	1 17	863	- 1		675	953	1	078	662	1	L 141	155
Motor vehicles	1	1	838	899	2	249	649	2 128	968	- 1	1	842	822	2	028	661	:	2 125	195
Parts and accessories for	1									- 1									
motor vehicles	1		298	907		309	388	27	277	- 1		279	616		289	022		256	307
Furniture	1	:	221	781		210	764	243	876	- 1		227	630		252	038		248	940

--* Revised

Additional information

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Explanatory notes

Introduction

- 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.
- In order to improve timeliness, some information for the current month June 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.

This survey covers manufacturing establishments conducting

Scope of the survey

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, major group and subgroup level. Each statistical unit is classified to an industry which reflects the predominant activity of the establishment (branch).

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 (cf. paragraph 6).

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

sample survey of manufacturing establishments in the private and public sectors.

The survey is collected by mail each month from a sample of approximately 2 700 manufacturing establishments.

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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 manhours worked.

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

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.

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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

In order to calculate a production index for the total manufacturing industry, the production indices for the major

the total manufacturing industry

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

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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 June 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 June not be reliable indicators of trend behaviour.

Trend cycle

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.

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

Reliability of estimates

Historical data

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 publications

Users June 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:

1995=100, January 1990 to September 1999.

- P3041.4 Manufacturing statistics: Value of sales (divisions, major groups and subgroups), January 1990 to September 1999.
- Bulletin of Statistics.
- SA Statistics.

Unpublished statistics

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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

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

Pre-release policy

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:

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.

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

Symbols and abbreviations 22 Stats SA Statistics South Africa

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 response rates for June 2000, by manufacturing major divisions, in table B.

Table B - Response rates for June 2000

Manufacturing major divisions	% response
Food and food products	74,7
Beverages	91,2
Textile	95,7
Total wearing apparel	87,8
Tanning and dressing of leather	58,8
Footwear	77,3
Wood and products of wood	74,6
Paper and paper products	91,5
Total publishing and printing	69,0
Coke and refined petroleum products	70,6
Basic chemicals	92,5
Other chemical products	84,9
Rubber products	91,7
Plastic products	67,4
Glass and glass products	100,0
Other non-metallic mineral products	77,7
Basic iron and steel products	79,4
Basic precious and non-ferrous metal products	75,0
Fabricated metal products	81,5
Total machinery and equipment	73,9

Electrical machinery, apparatus	72,0
Radio, television and communication apparatus	68,0
Professional equipment	68,0
Motor vehicles; trailers; parts and accessories	78,0
Other transport equipment	80,0
Furniture	72,9
Other manufacturing industries	68,4
Total	78,8

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 June 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 includes -

- purchases and transfers-in of materials;
- payments to other establishments for work done;

Intermediate consumption

- 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;
- 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; and
- opening values of work in progress, finished goods and factored goods.

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.

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.

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