



June 1997

EMBARGO: 11:30 AM (CANBERRA TIME) THURS 31 JULY 1997

Manufacturing Production

Australia

NOTES

FORTHCOMING ISSUES	ISSUE	RELEASE DATE
	September quarter 1997	12 November 1997
	December quarter 1997	11 February 1998

ABOUT THIS ISSUE

This publication is the last monthly issue. Future issues will contain a reduced range of data items and will also be released on a quarterly basis.

IN THIS ISSUE

This publication presents monthly and quarterly estimates of selected major indicators of manufacturing production for Australia.

From page 5, there are two graphs shown for each available manufactured commodity. The left hand graph shows seasonally adjusted (where available) and trend estimates over the last four years. The right hand graph presents a short-term sensitivity analysis of the trend estimates. The sensitivity analysis shows the current trend and two possible scenarios of how the trend might move if the next seasonally adjusted estimate rises or falls by the historical average monthly or quarterly movement for that series. A worked example is shown on page 25.

EFFECTS OF ROUNDING

Estimates of change shown in this publication have been calculated using unrounded estimates and may be different from, but are more accurate than, movements obtained from the rounded estimates.

SYMBOLS AND OTHER USAGES

—	nil or rounded to zero
M	manufactured commodity collected by month
n.a.	not available
n.p.	not publishable
n.y.a.	not yet available
Q	manufactured commodity collected by quarter
r	figure or series revised since previous issue

INQUIRIES

For information about other ABS statistics and services, please refer to the back of this publication.

For further information about these statistics, contact John Ridley on Sydney (02) 9268 4541.

W. McLennan
Australian Statistician

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KEY POINTS

GENERAL TRENDS

Latest trends indicate that of the 57 indicators available, 21 showed rising production trends, 16 showed falling trends while 20 were relatively stable.

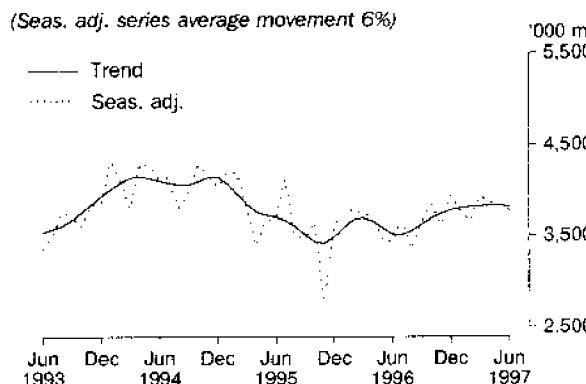
	PUBLISHED PRODUCTION TREND....		
Indicators available	Rising	Falling	Stable
April 1997 issue	57	20	13
May 1997 issue	57	24	17
June 1997 issue	57	21	16

SERIES TRENDS

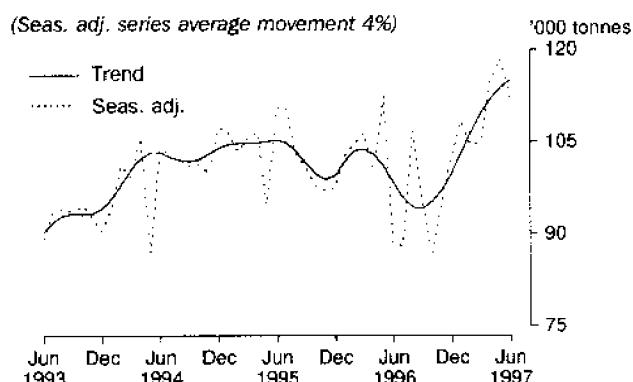
Two of the more notable trends were production of textile floor coverings and plastics in primary forms. The trend for production of textile floor coverings had experienced a small but steady increase from the last low point in July 1996. However, the trend for June 1997 was stable (falling by 0.4%). This series will rise again in July 1997 if there is almost any increase in the seasonally adjusted series (the average movement for this series is 6%).

Production of plastics in primary forms continued to rise, by 1.1%, from a low point in September 1996. This series will continue to rise in July 1997 unless the seasonally adjusted series decreases by 3% (the average movement for this series is -4%).

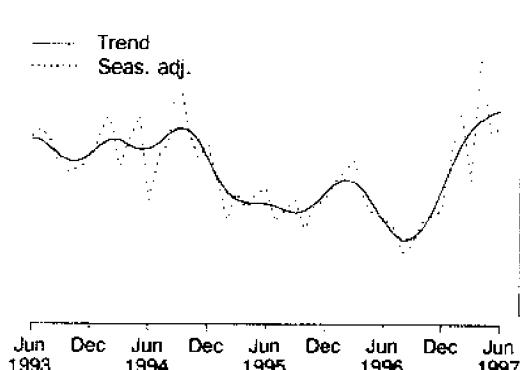
M18 TEXTILE FLOOR COVERINGS



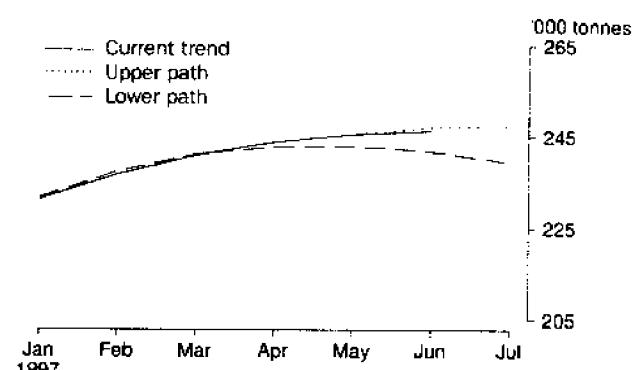
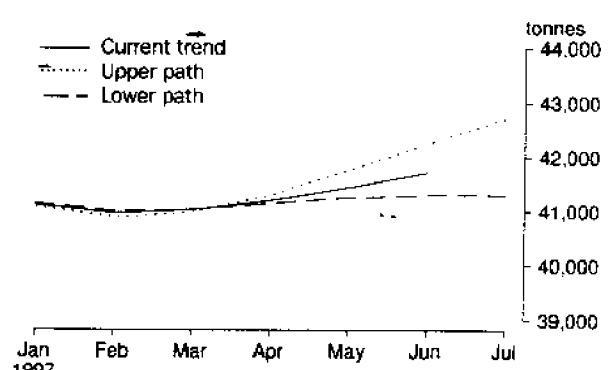
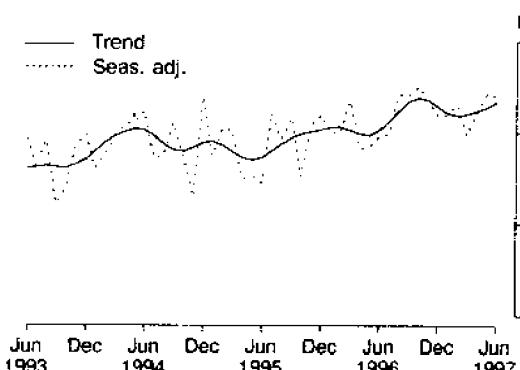
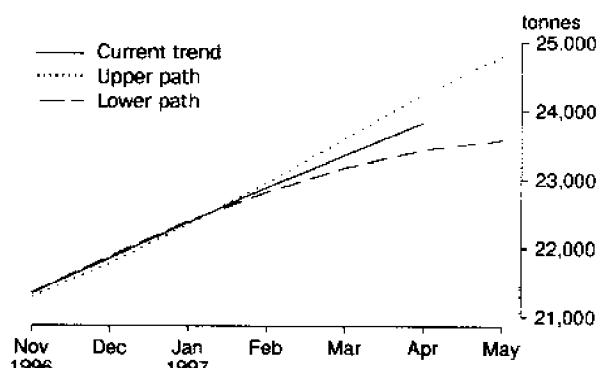
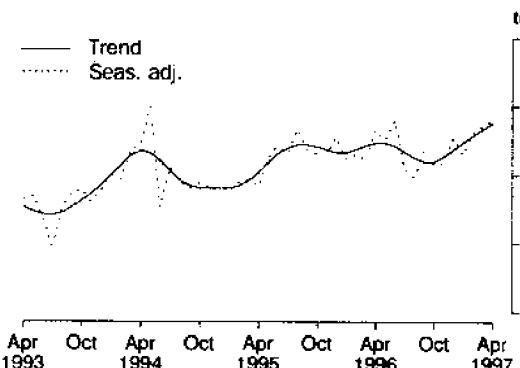
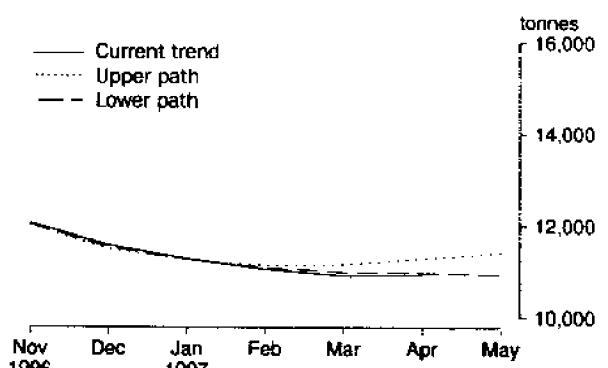
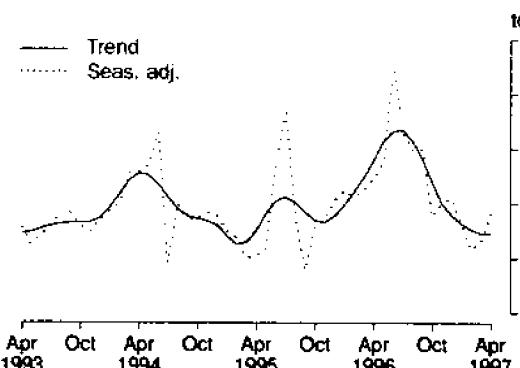
M30 PLASTICS IN PRIMARY FORMS



Longer term trend(a)

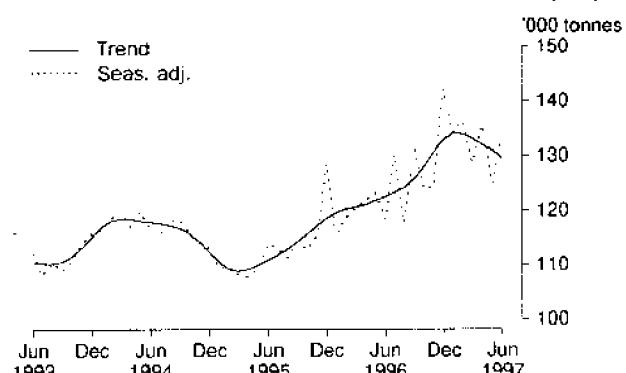
M1 RED MEAT (seasonally adjusted series average movement 4%)

Short-term sensitivity analysis

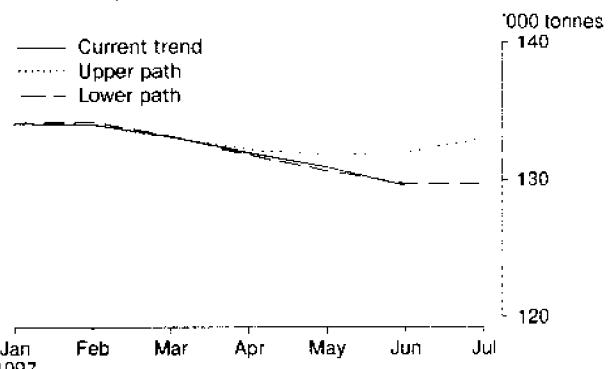
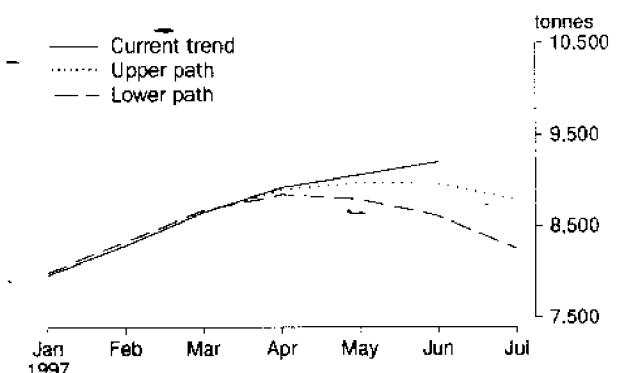
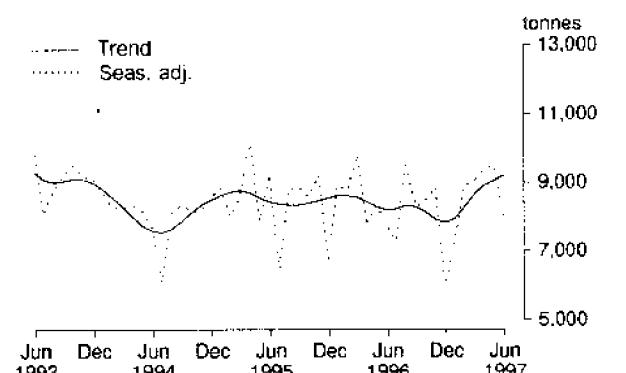
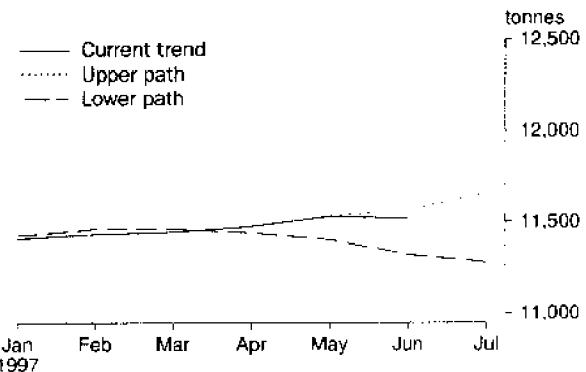
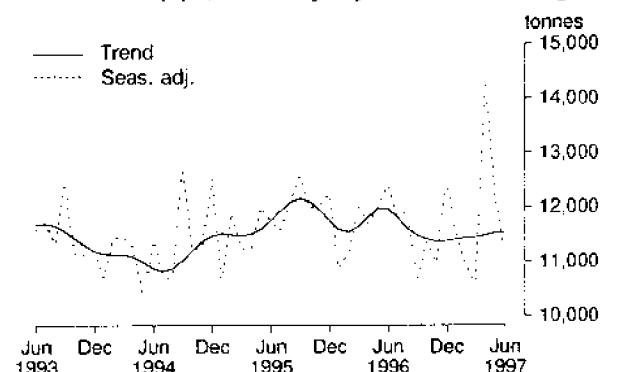
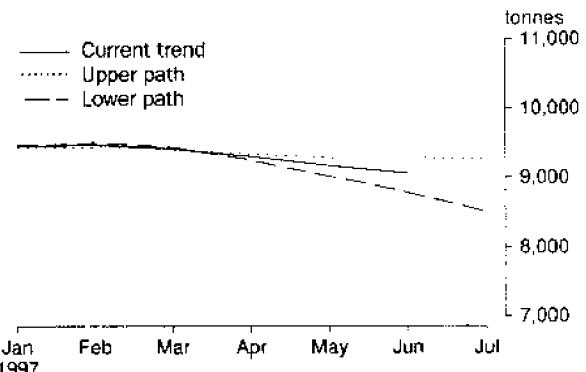
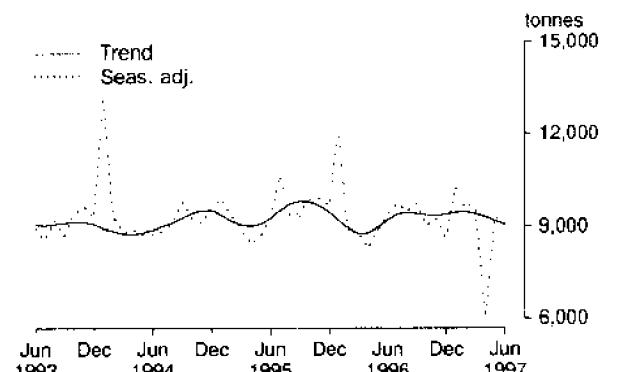
**M2 CHICKEN MEAT** (seasonally adjusted series average movement 4%)**M3 CHEESE(b)** (seasonally adjusted series average movement 6%)**M4 BUTTER(b)** (seasonally adjusted series average movement 7%)

For footnotes see page 23.

Longer term trend(a)

M5 FLOUR OF WHEAT OR OF MESLIN (seasonally adjusted series average movement 3%)

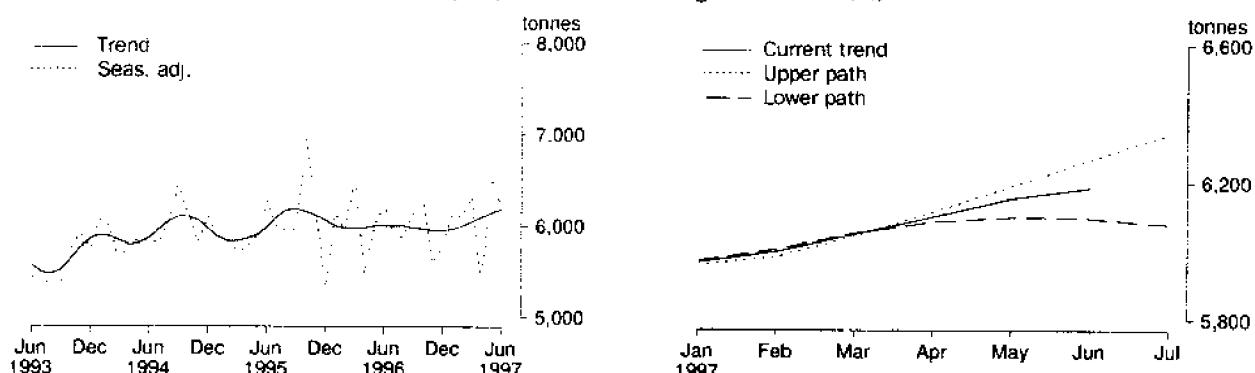
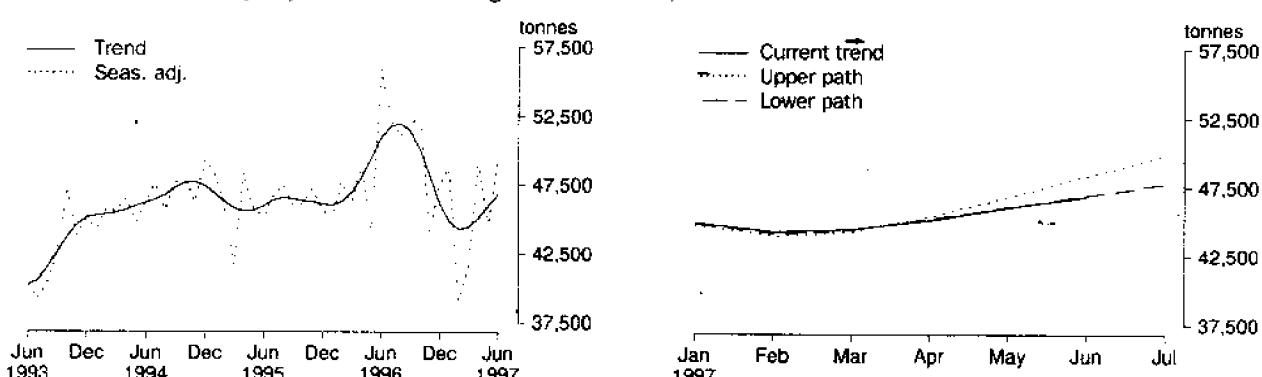
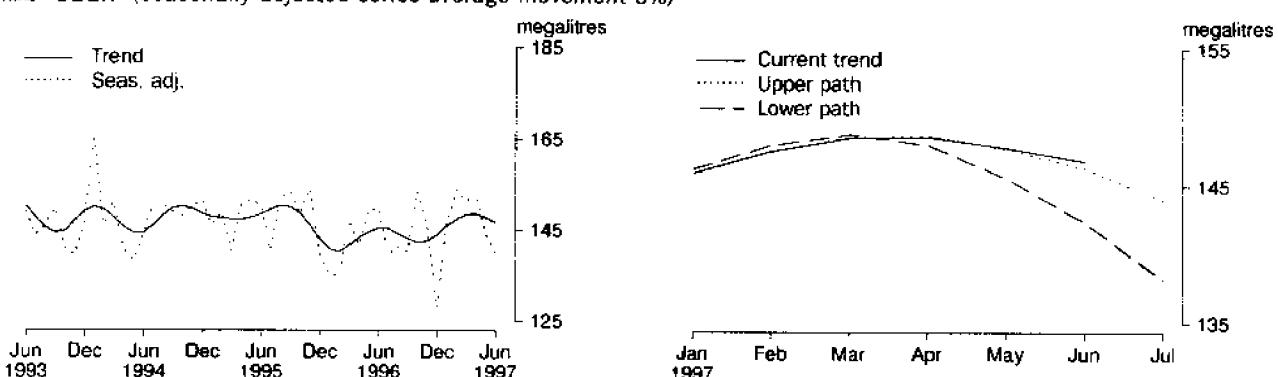
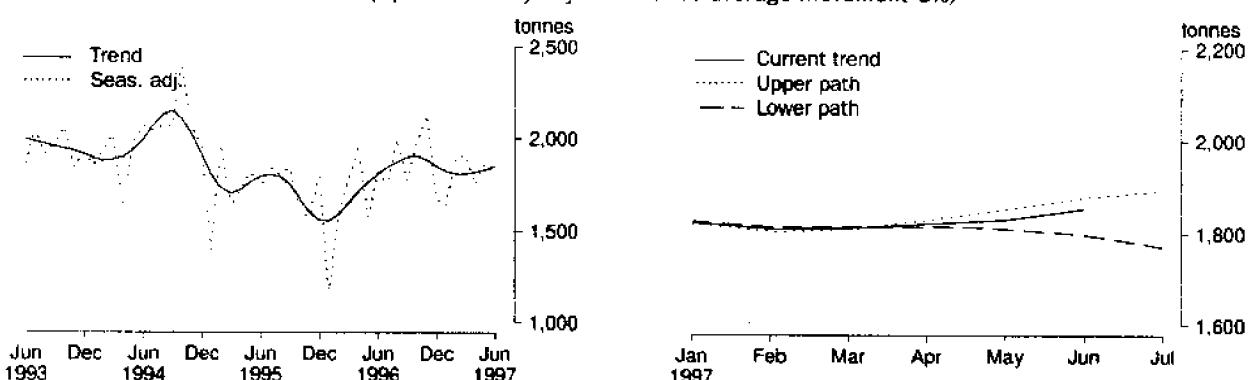
Short-term sensitivity analysis

**M6 PREPARED FOODS FROM CEREALS** (seasonally adjusted series average movement 8%)**M7 BISCUITS(d)** (seasonally adjusted series average movement 4%)**M8 CHOCOLATE BASED CONFECTIONERY(d)** (seasonally adjusted series average movement 7%)

For footnotes see page 23.

Longer term trend(a)

Short-term sensitivity analysis

M9 OTHER CONFECTIONERY (seasonally adjusted series average movement 5%)**M10 MALT** (seasonally adjusted series average movement 5%)**M11 BEER** (seasonally adjusted series average movement 5%)**M12 TOBACCO AND CIGARETTES(b)** (seasonally adjusted series average movement 8%)

For footnotes see page 23.

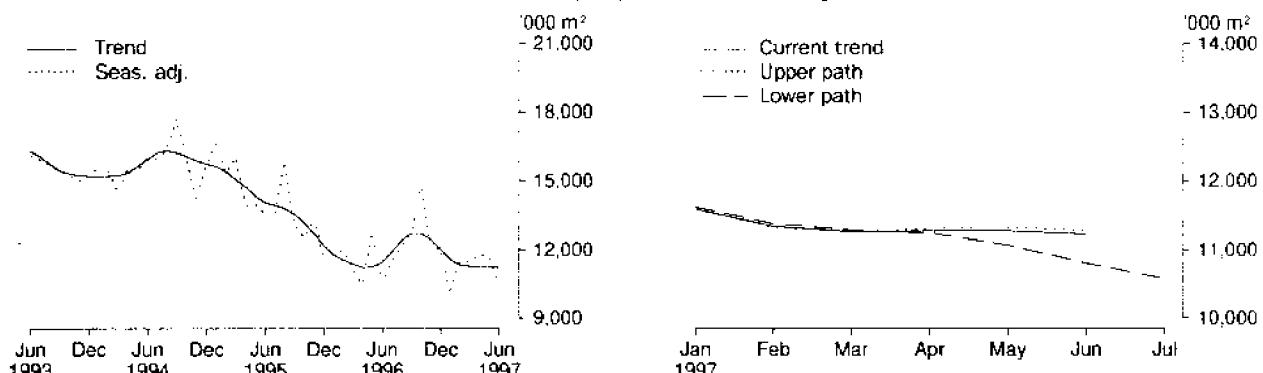
M

MONTHLY PRODUCTION *continued*

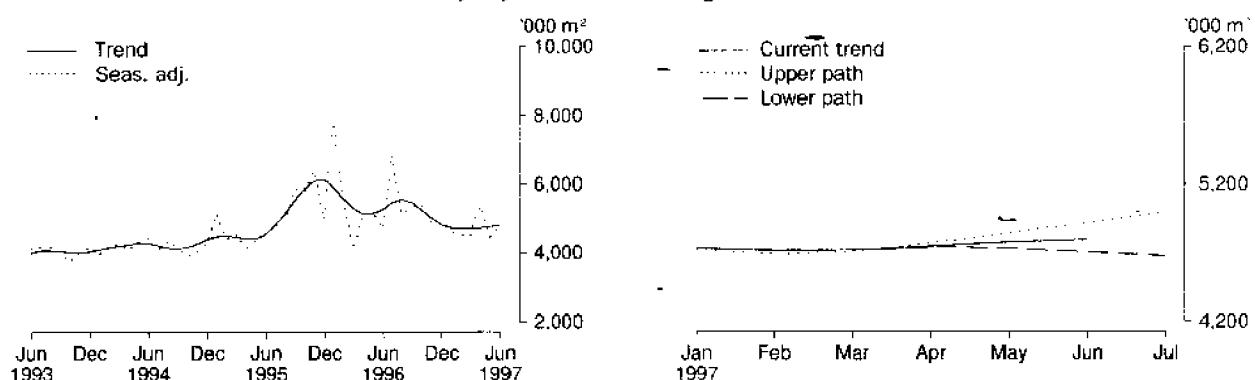
Longer term trend(a)

Short-term sensitivity analysis

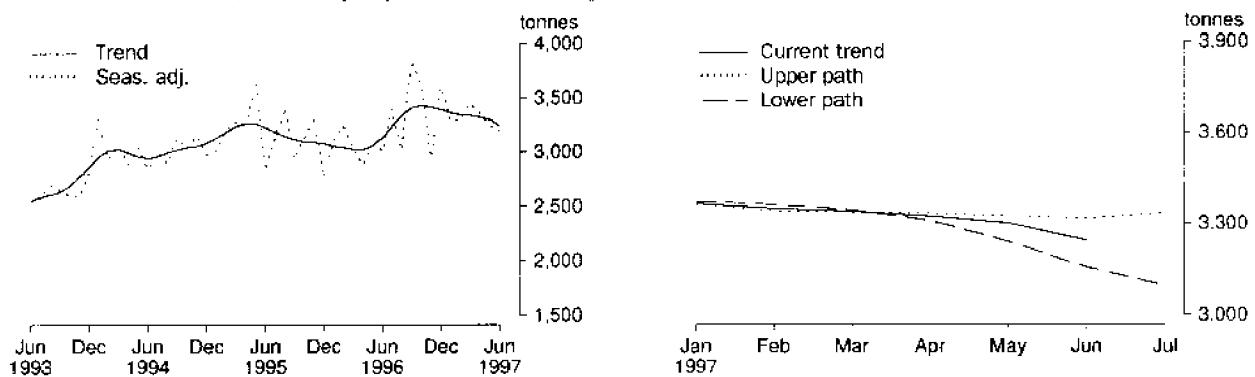
M13 MAN-MADE FIBRE WOVEN FABRIC (seasonally adjusted series average movement 8%)



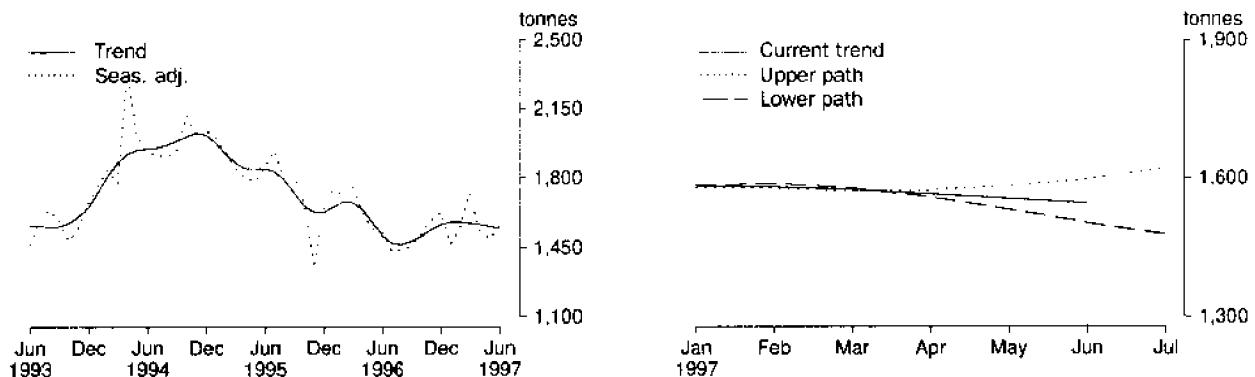
M14 COTTON WOVEN FABRIC (seasonally adjusted series average movement 9%)



M15 COTTON YARN (seasonally adjusted series average movement 9%)



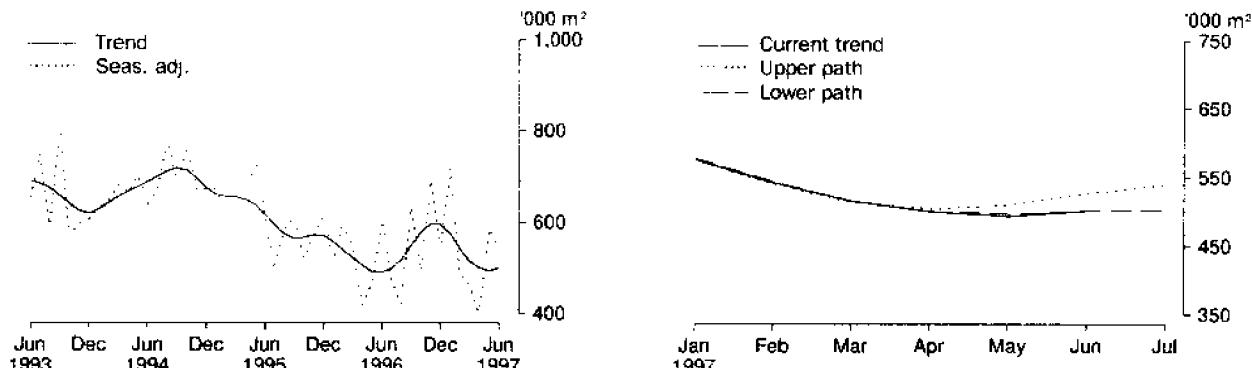
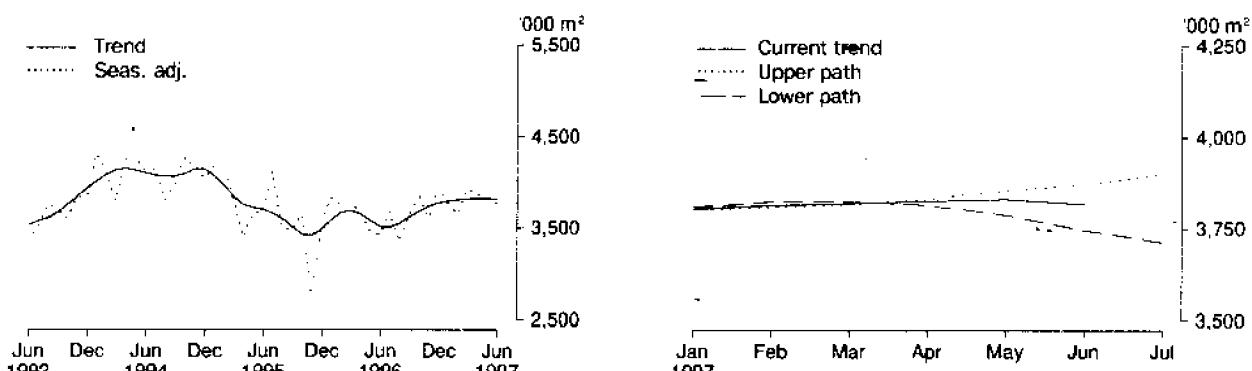
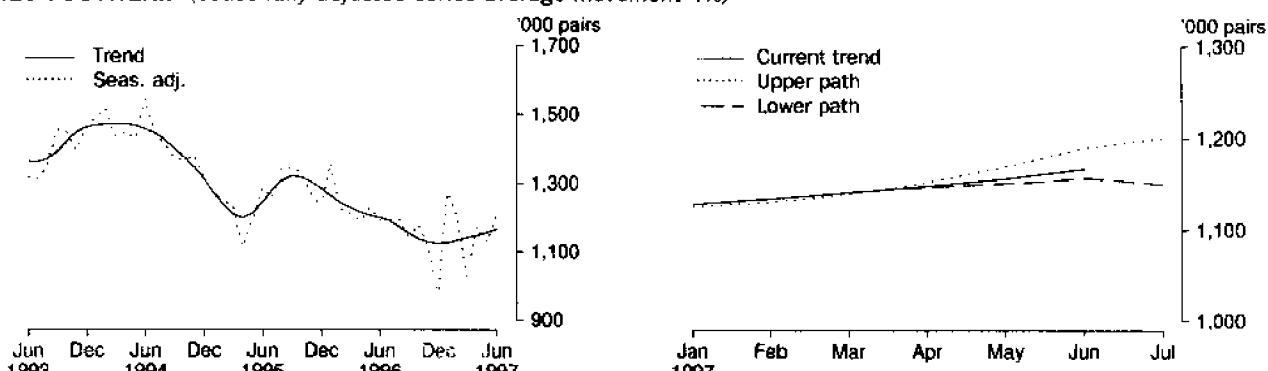
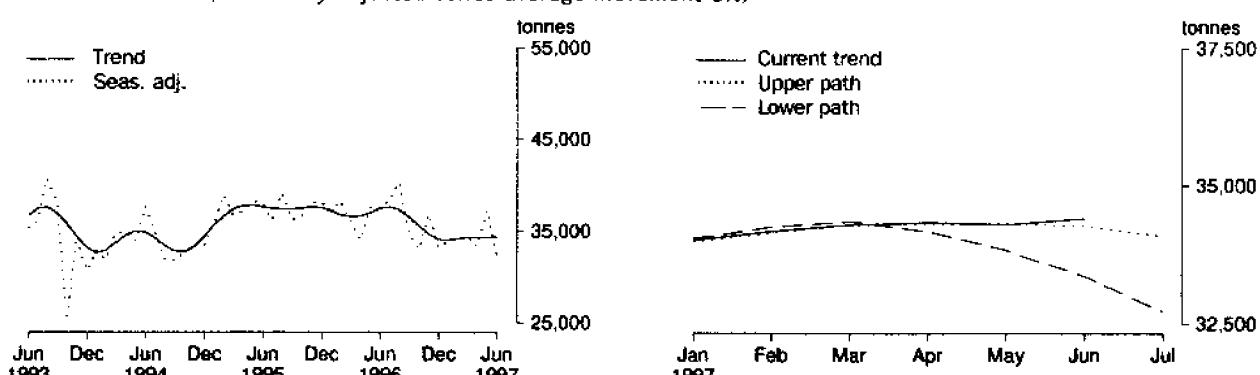
M16 WOOL YARN (seasonally adjusted series average movement 6%)



For footnotes see page 23.

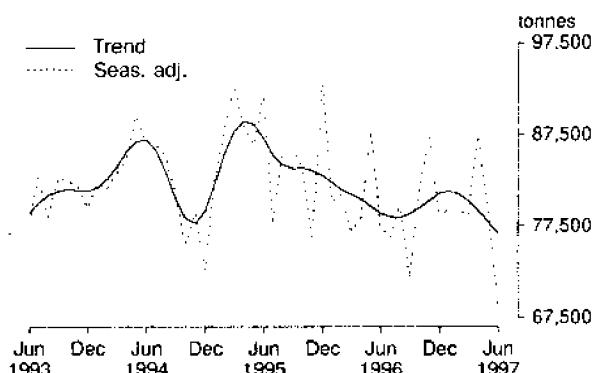
Longer term trend(a)

Short-term sensitivity analysis

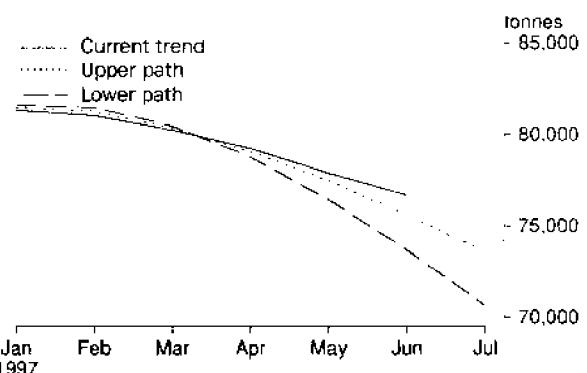
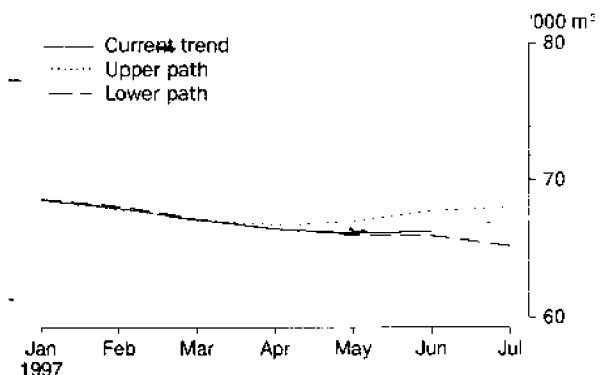
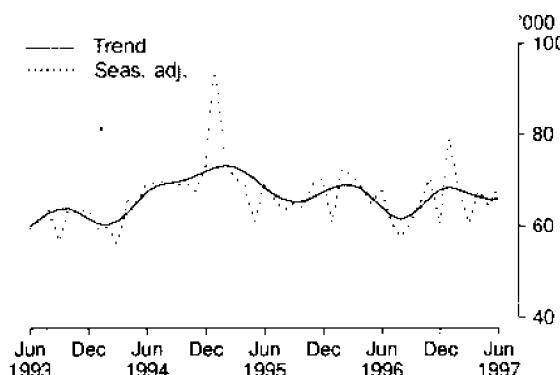
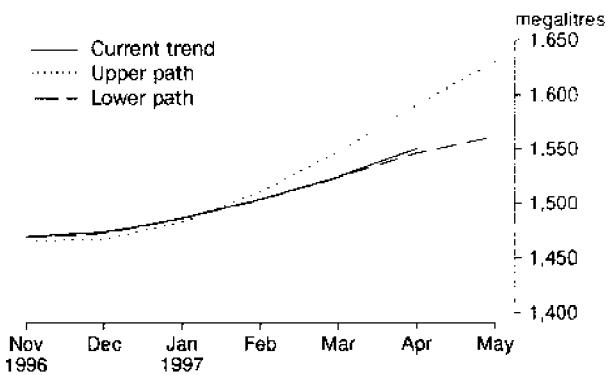
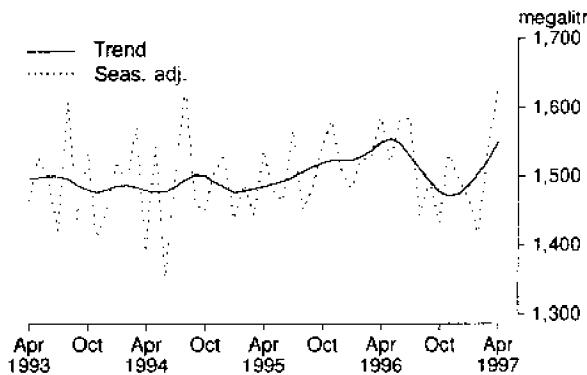
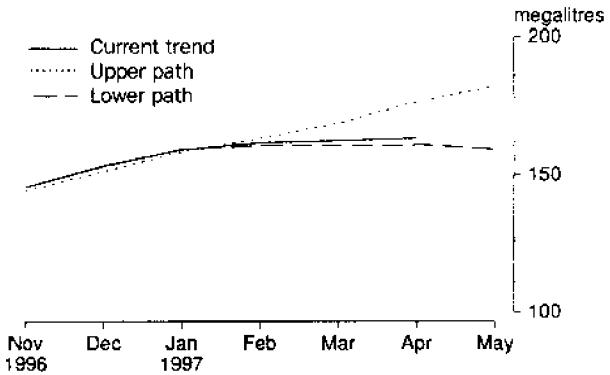
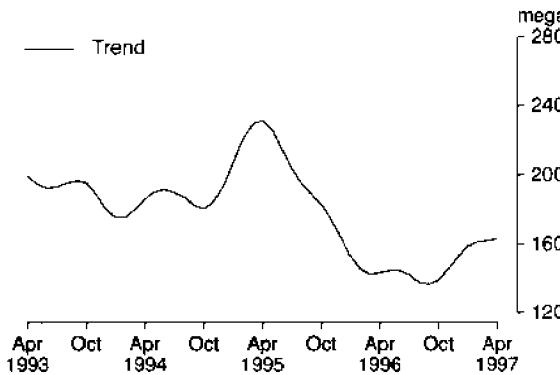
M17 WOOL WOVEN FABRIC (seasonally adjusted series average movement 8%)**M18 TEXTILE FLOOR COVERINGS** (seasonally adjusted series average movement 6%)**M19 FOOTWEAR** (seasonally adjusted series average movement 4%)**M21 NEWSPRINT** (seasonally adjusted series average movement 5%)

For footnotes see page 23.

Longer term trend(a)

M22 WOOD PULP (seasonally adjusted series average movement 5%)

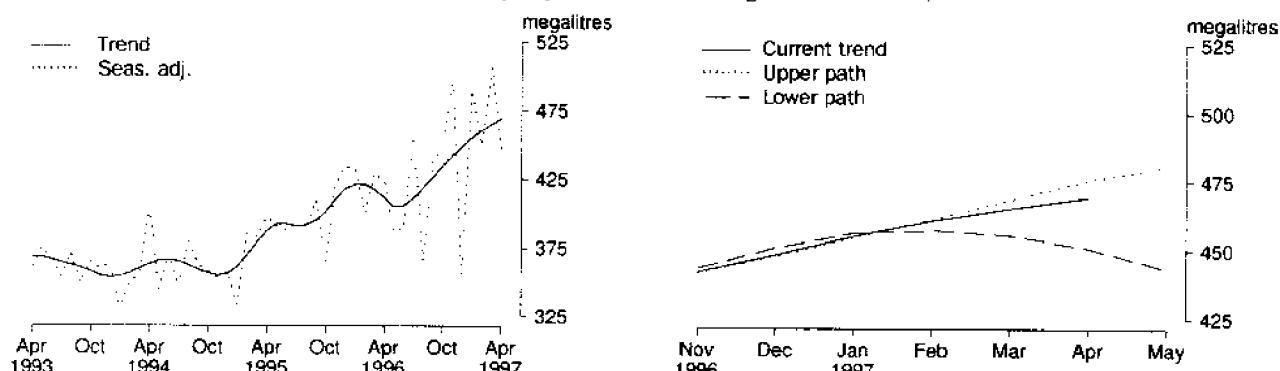
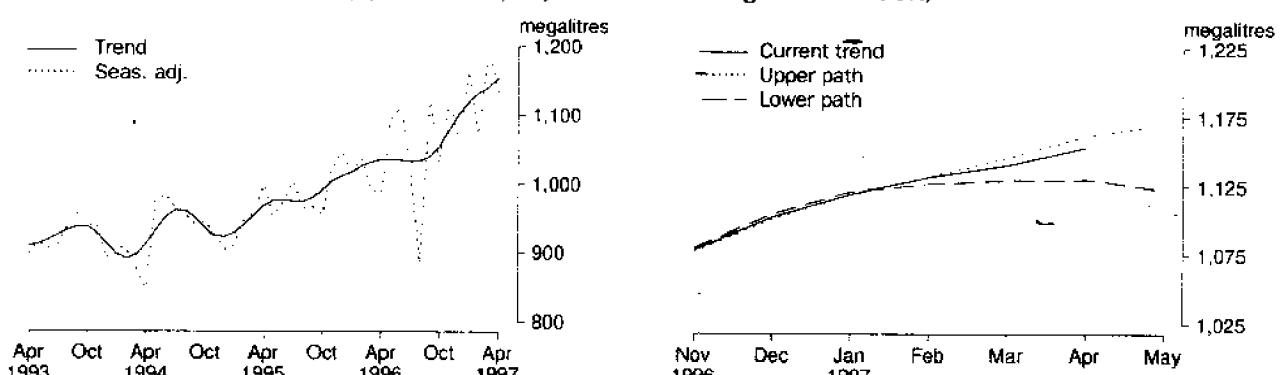
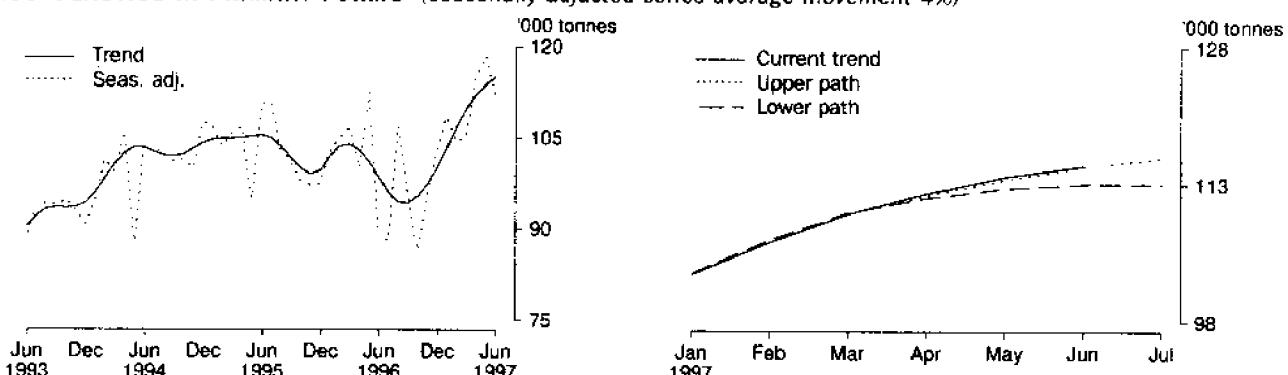
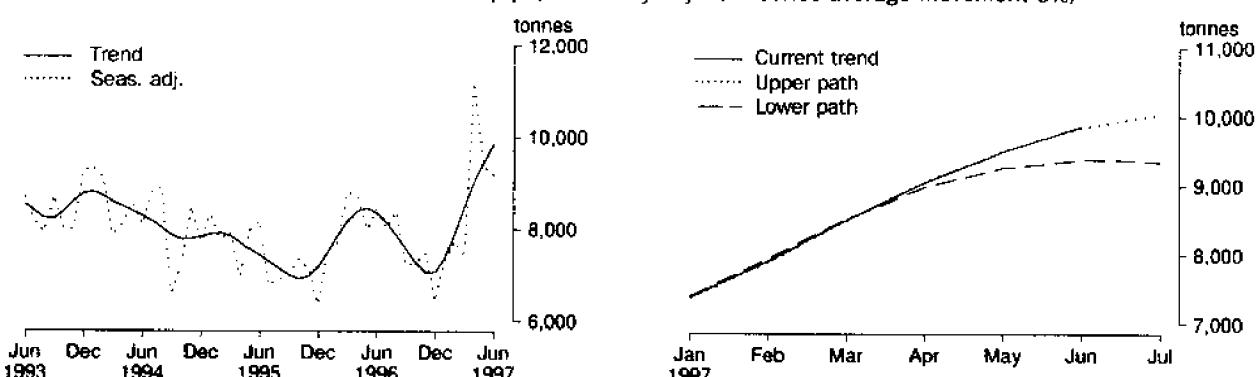
Short-term sensitivity analysis

**M23 UNLAMINATED PARTICLE BOARD** (seasonally adjusted series average movement 5%)**M26 AUTOMOTIVE GASOLINE(b)** (seasonally adjusted series average movement 5%)**M27 FUEL OIL(b)** (seasonally adjusted series average movement 15%)

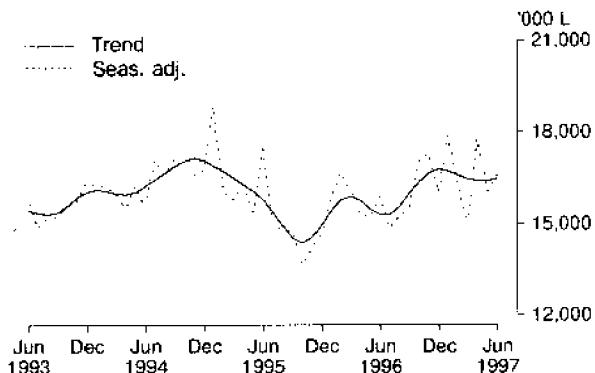
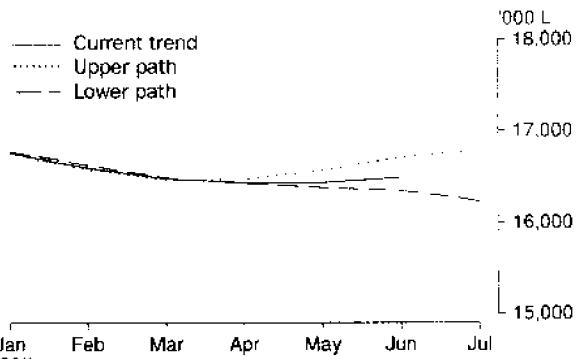
For footnotes see page 23.

Longer term trend(a)

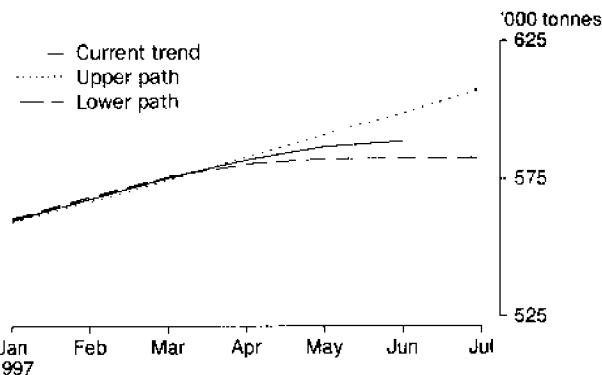
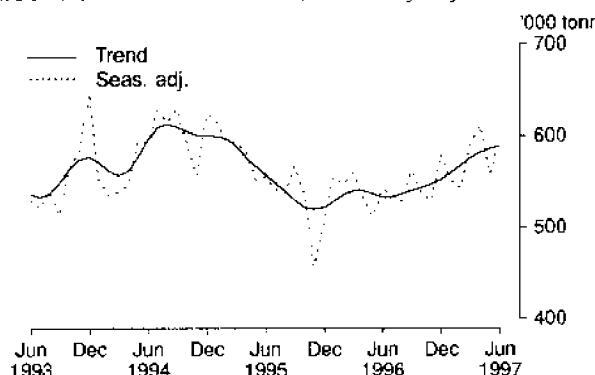
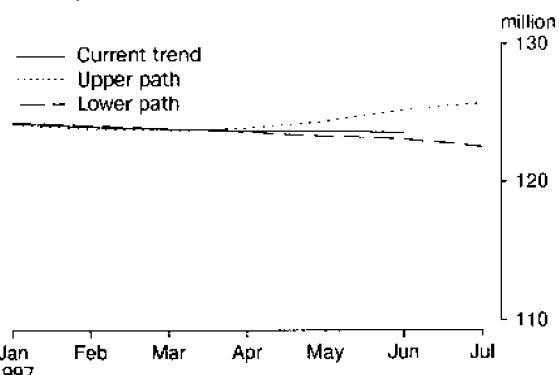
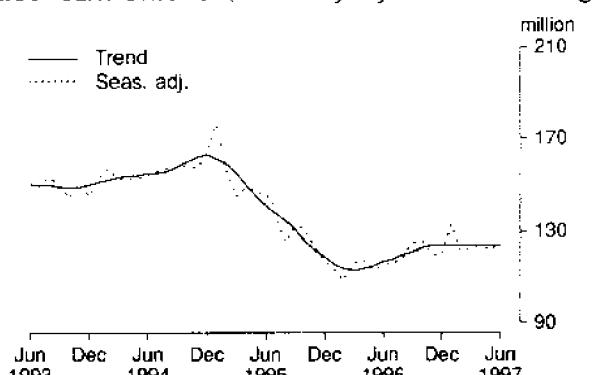
Short-term sensitivity analysis

M28 AVIATION TURBINE FUEL(b) (seasonally adjusted series average movement 9%)**M29 AUTOMOTIVE DIESEL OIL(b) (seasonally adjusted series average movement 5%)****M30 PLASTICS IN PRIMARY FORMS (seasonally adjusted series average movement 4%)****M31 RIGID PVC TUBES, PIPES AND HOSES(e) (seasonally adjusted series average movement 9%)**

For footnotes see page 23.

Longer term trend(a)**M33 PAINT** (seasonally adjusted series average movement 4%)**Short-term sensitivity analysis****M34 SUPERPHOSPHATES**

Data in this series are subject to confidentiality restrictions and are, therefore, not currently publishable.

M35 PORTLAND CEMENT (seasonally adjusted series average movement 5%)**M36 CLAY BRICKS** (seasonally adjusted series average movement 3%)

For footnotes see page 23.

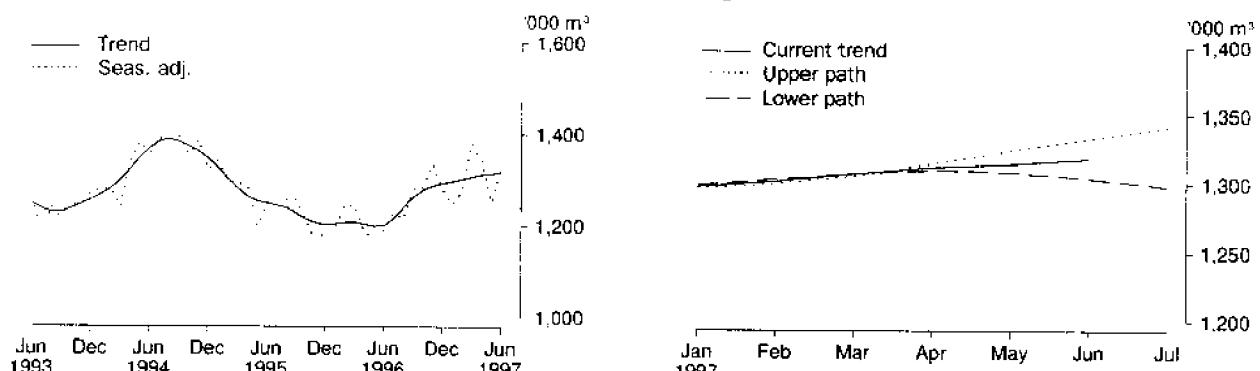
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MONTHLY PRODUCTION continued

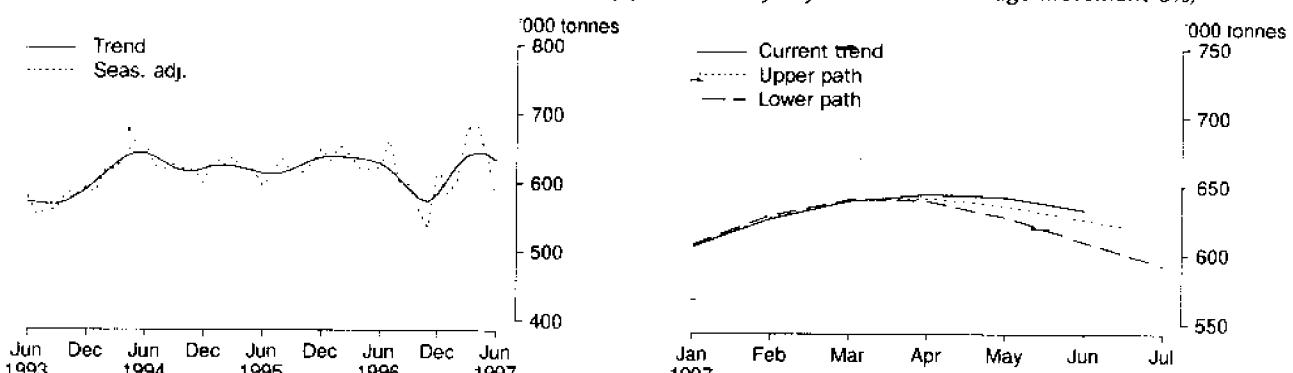
Longer term trend(a)

Short-term sensitivity analysis

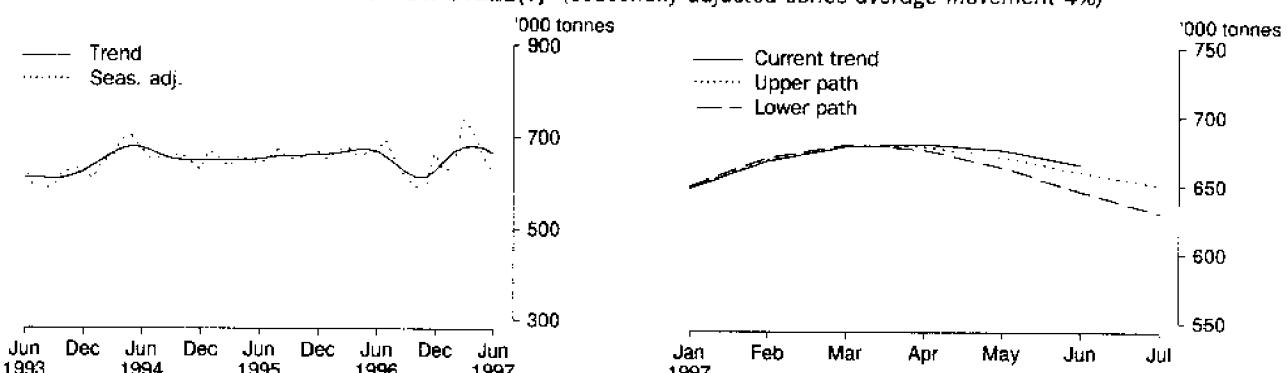
M37 READY MIXED CONCRETE (seasonally adjusted series average movement 4%)



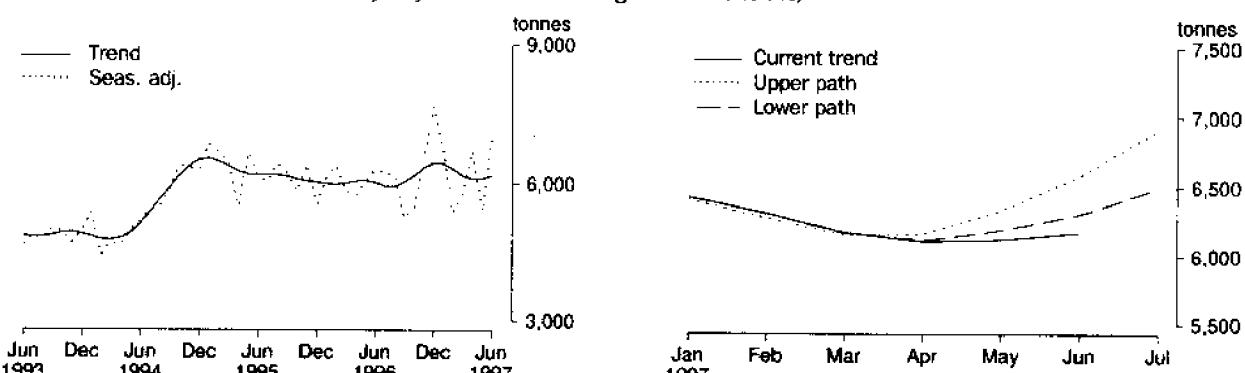
M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(c) (seasonally adjusted series average movement 5%)



M39 BLOOMS AND SLABS OF IRON OR STEEL(c) (seasonally adjusted series average movement 4%)

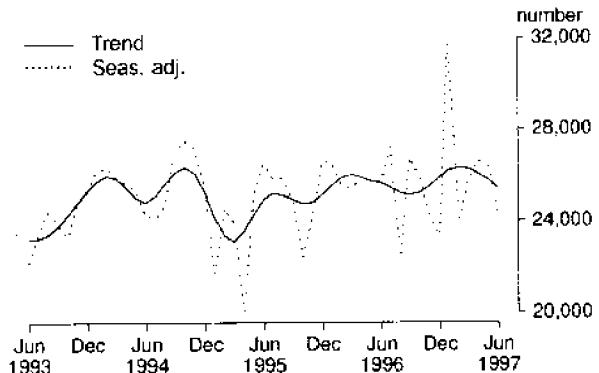


M40 INSULATED WIRE (seasonally adjusted series average movement 7%)

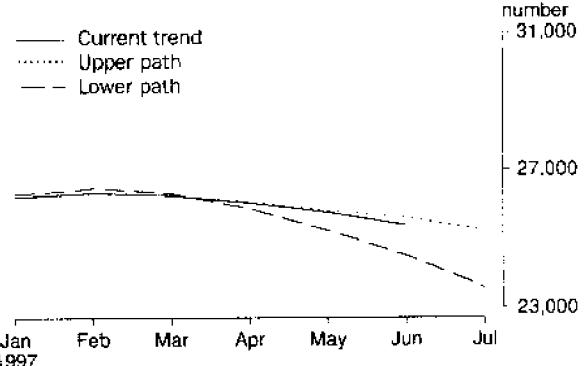
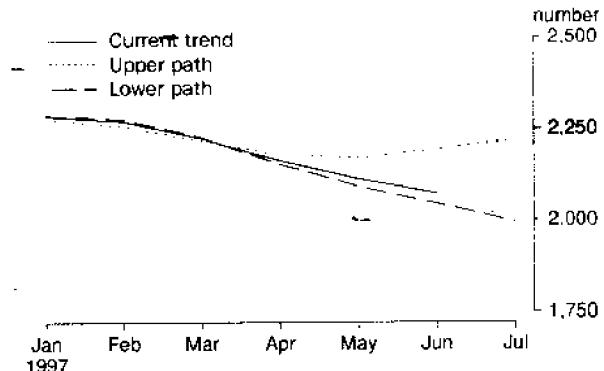
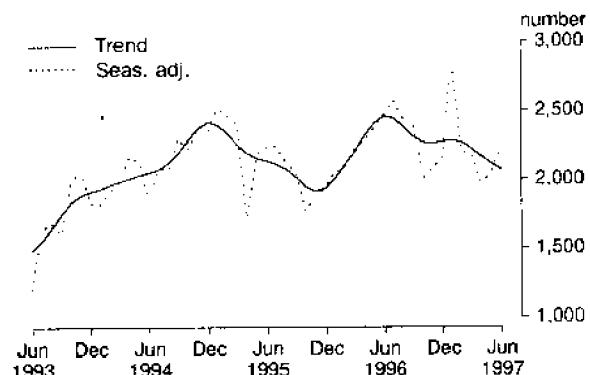
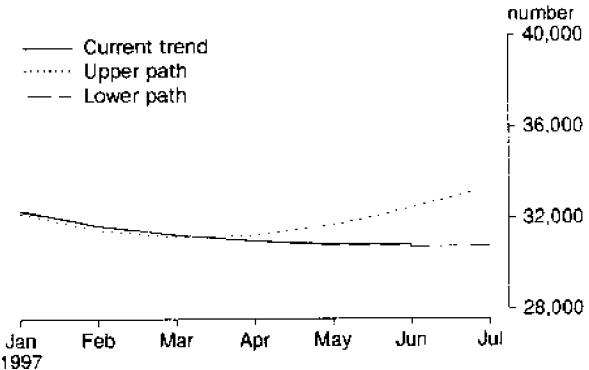
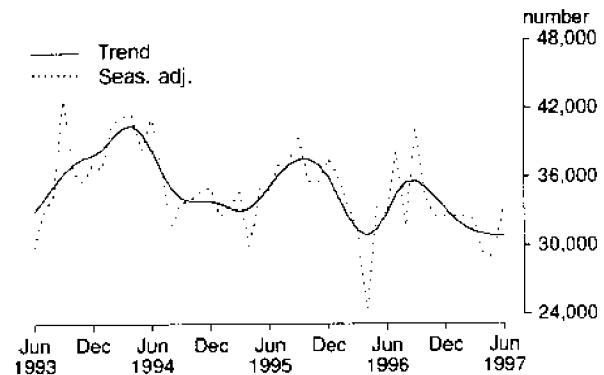
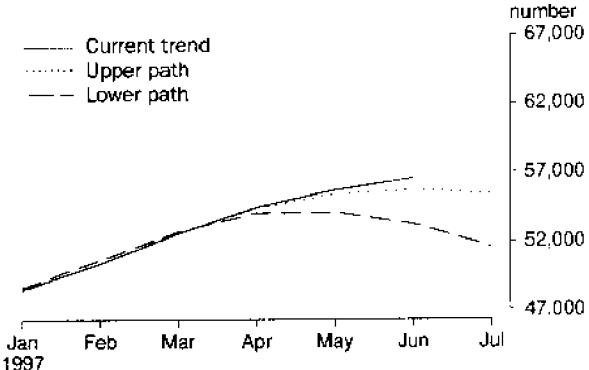
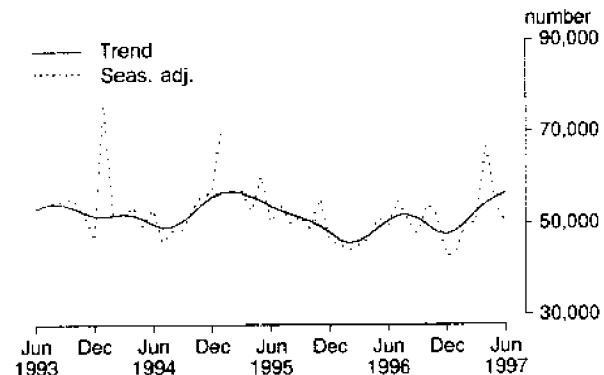


For footnotes see page 23.

Longer term trend(a)

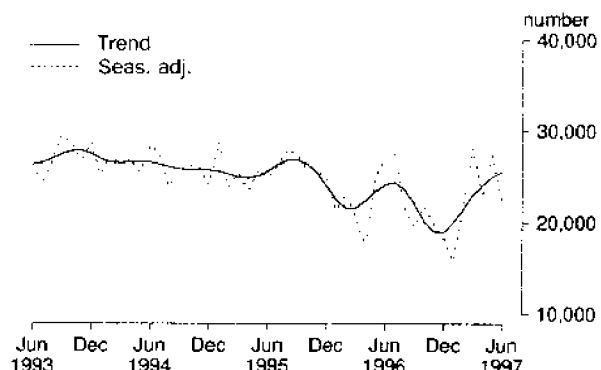
M41 CARS AND STATION WAGONS (seasonally adjusted series average movement 8%)

Short-term sensitivity analysis

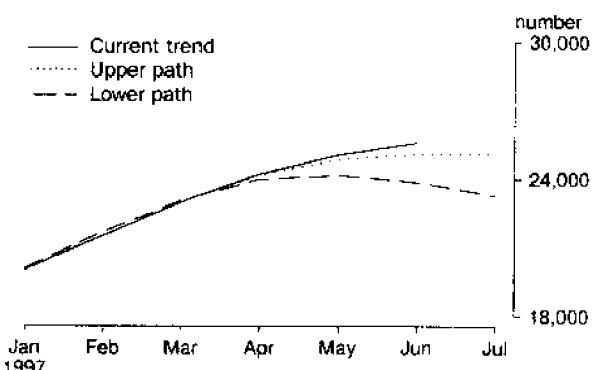
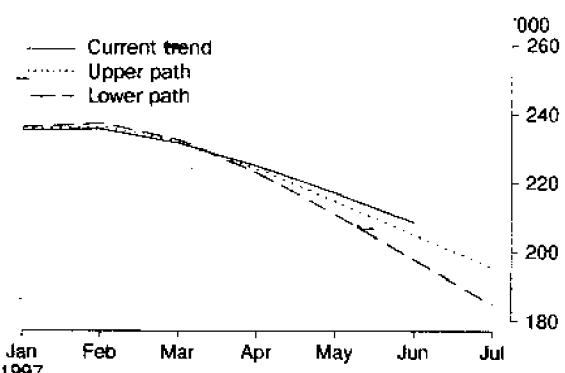
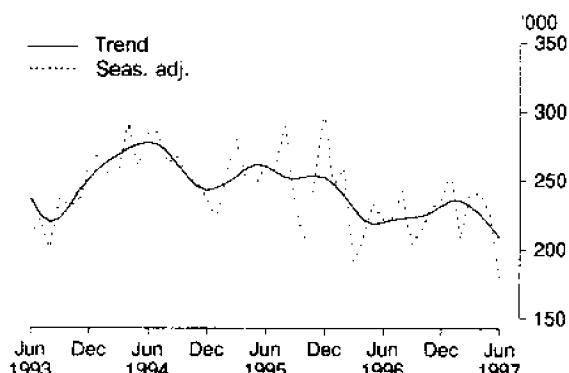
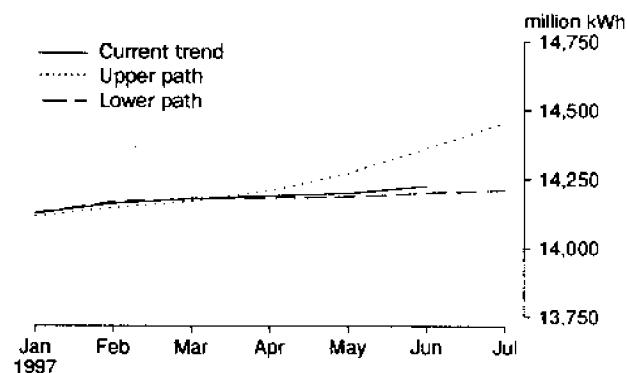
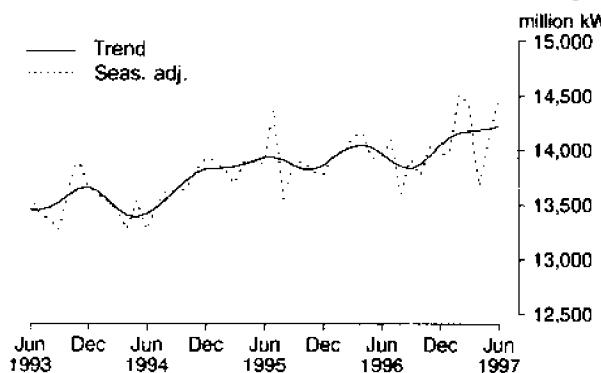
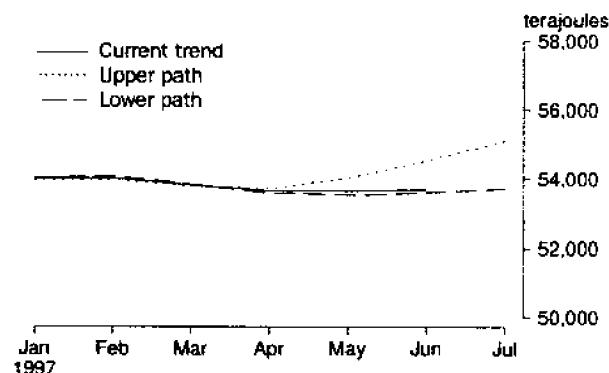
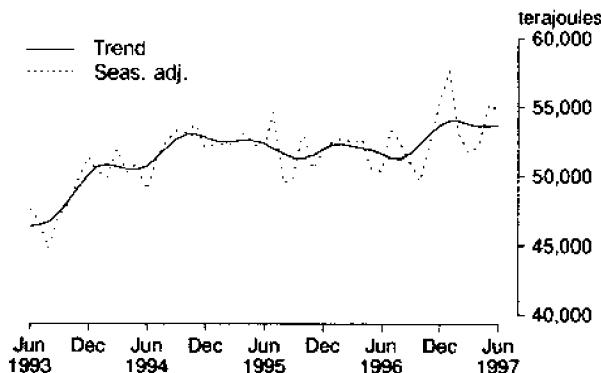
**M42 VEHICLES FOR GOODS AND MATERIALS** (seasonally adjusted series average movement 11%)**M44 DOMESTIC REFRIGERATORS** (seasonally adjusted series average movement 8%)**M45 WATER HEATERS** (seasonally adjusted series average movement 7%)

For footnotes see page 23.

Longer term trend(a)

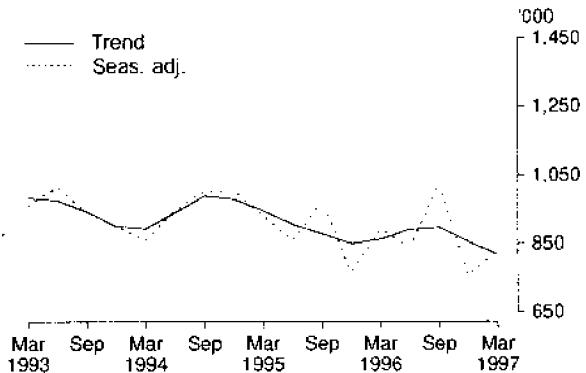
M46 DOMESTIC CLOTHES WASHING MACHINES (seasonally adjusted series average movement 9%)

Short-term sensitivity analysis

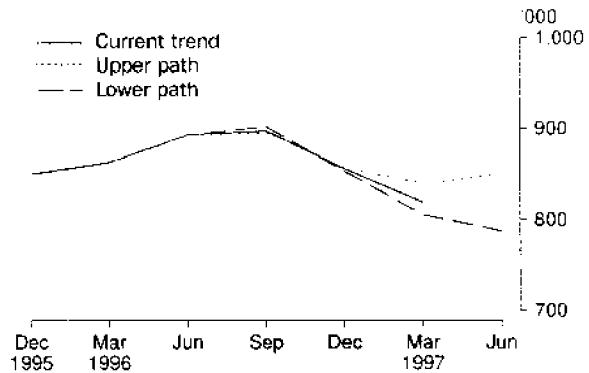
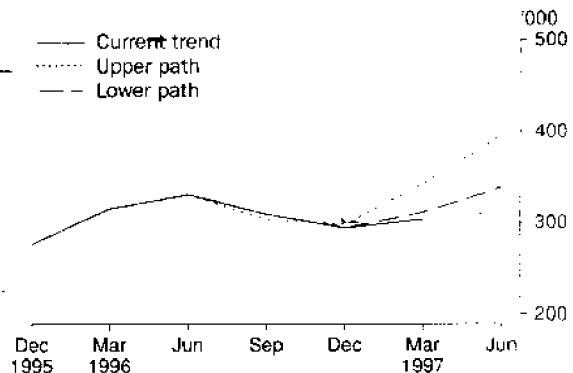
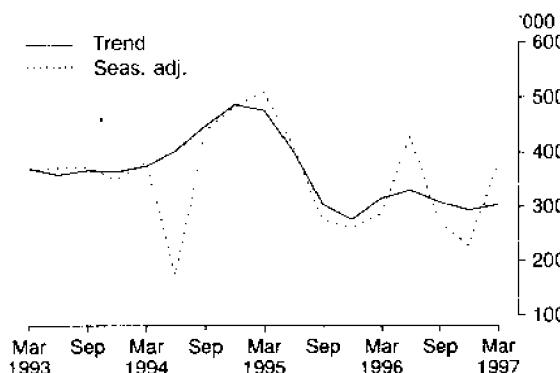
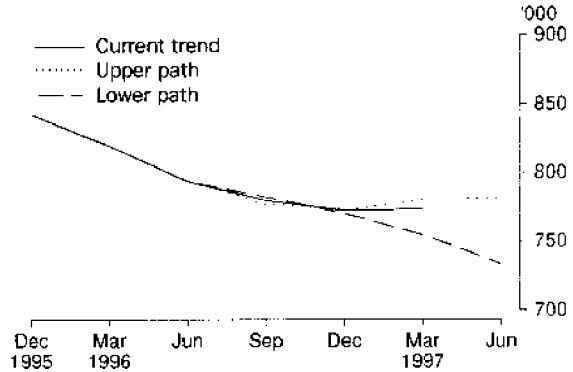
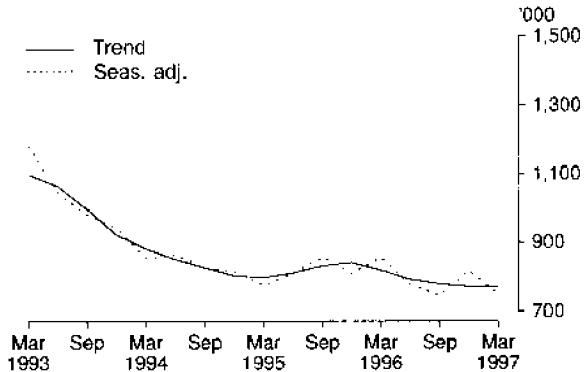
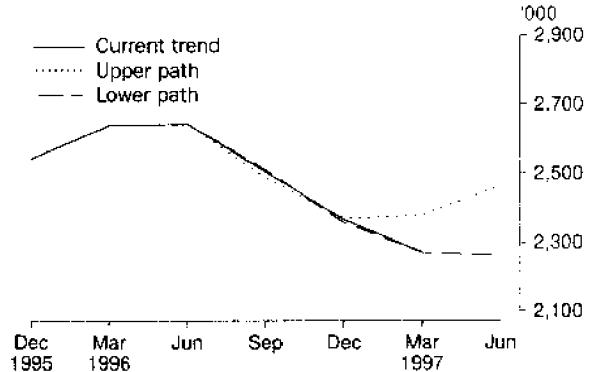
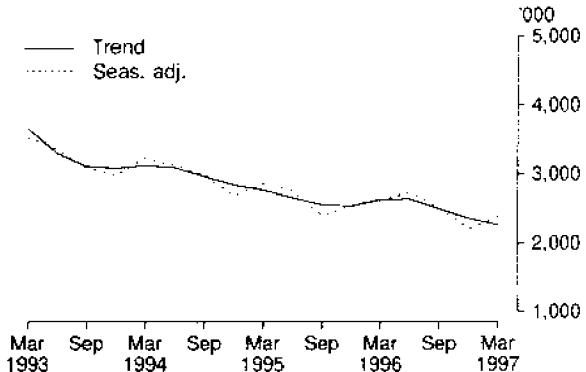
**M47 ELECTRIC MOTORS** (seasonally adjusted series average movement 7%)**M48 ELECTRICITY** (seasonally adjusted series average movement 1%)**M49 GAS** (seasonally adjusted series average movement 3%)

For footnotes see page 23.

Longer term trend(a)

Q1 MEN'S AND BOYS' LONG TROUSERS (seasonally adjusted series average movement 7%)

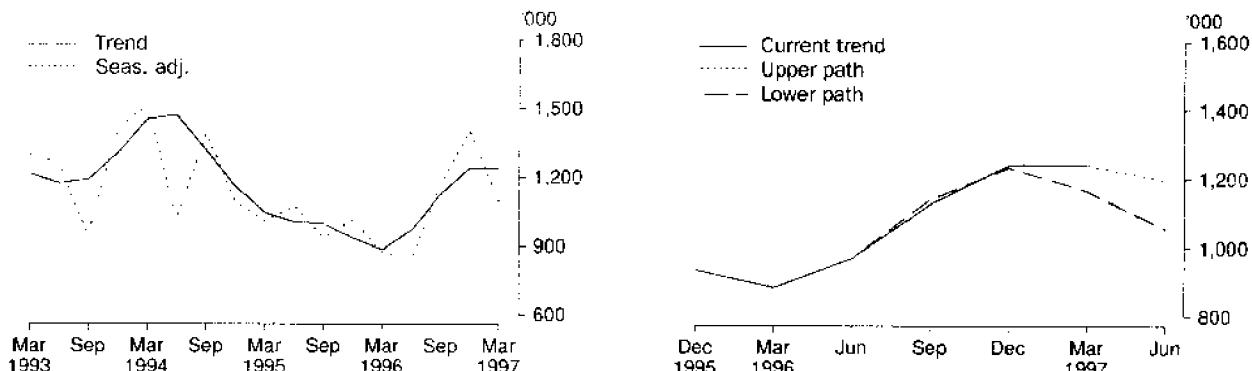
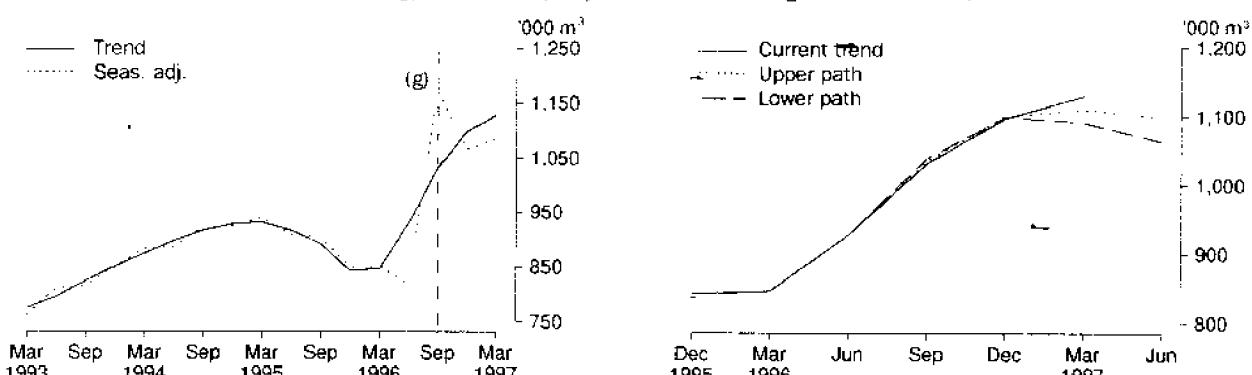
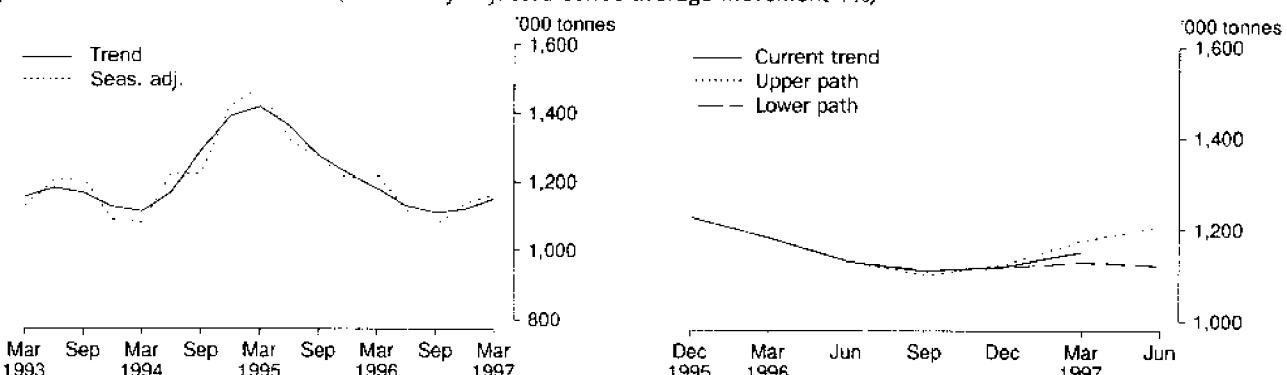
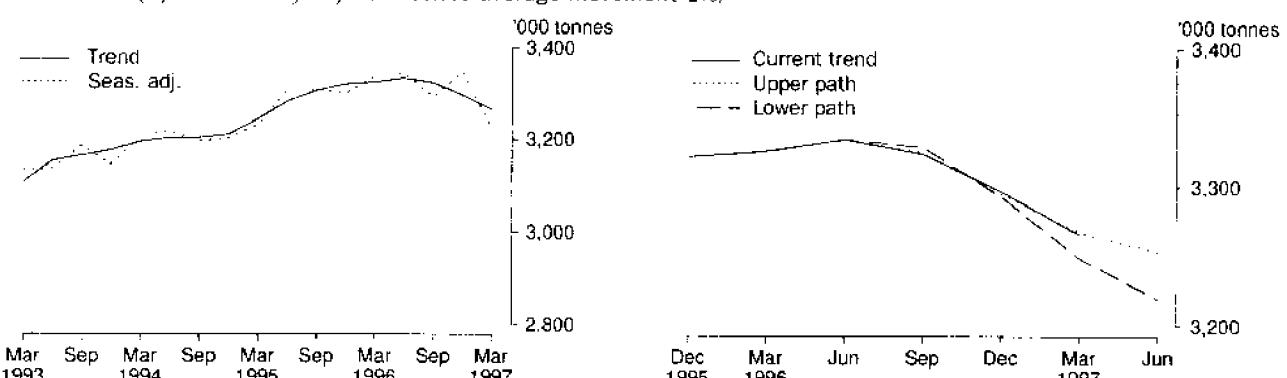
Short-term sensitivity analysis

Q1 MEN'S AND BOYS' LONG TROUSERS (seasonally adjusted series average movement 7%)**Q2 WOMEN'S AND GIRLS' LONG TROUSERS** (seasonally adjusted series average movement 14%)**Q3 JEANS** (seasonally adjusted series average movement 6%)**Q4 MEN'S AND BOYS' SHIRTS** (seasonally adjusted series average movement 8%)

For footnotes see page 23.

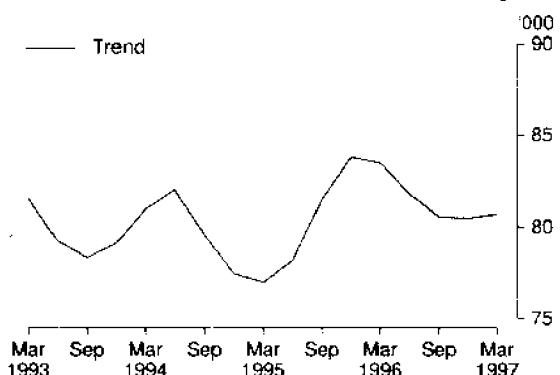
Longer term trend(a)

Short-term sensitivity analysis

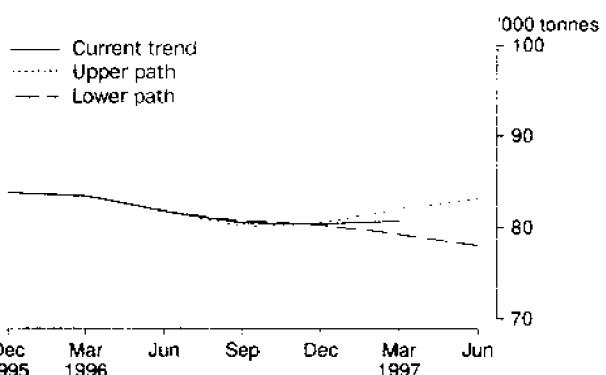
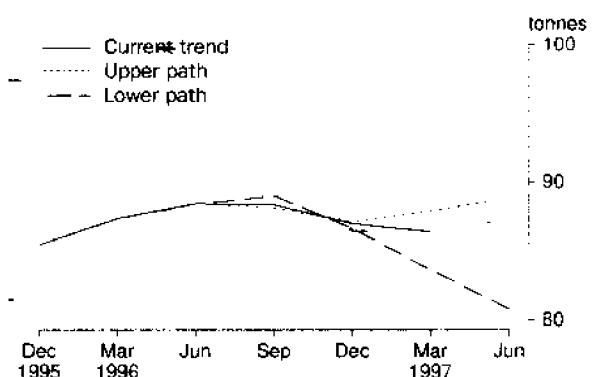
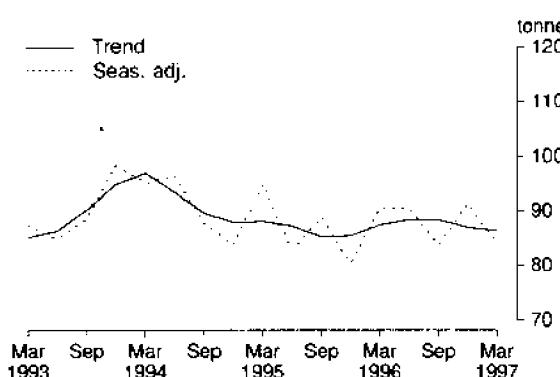
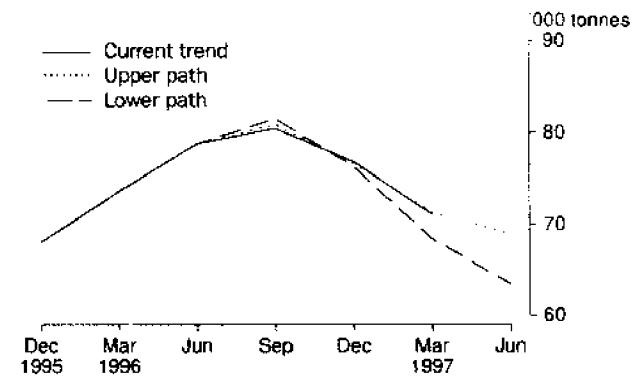
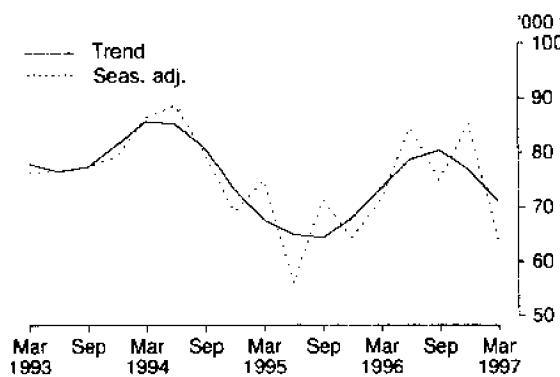
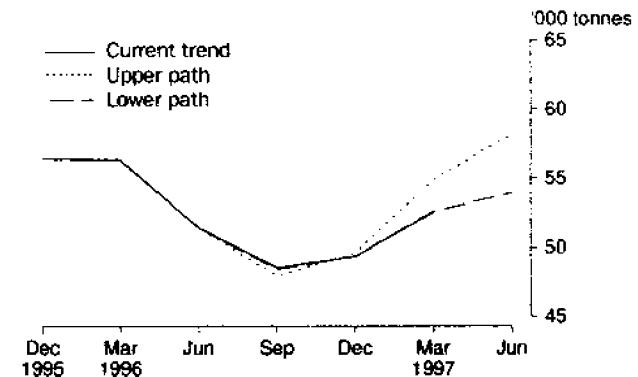
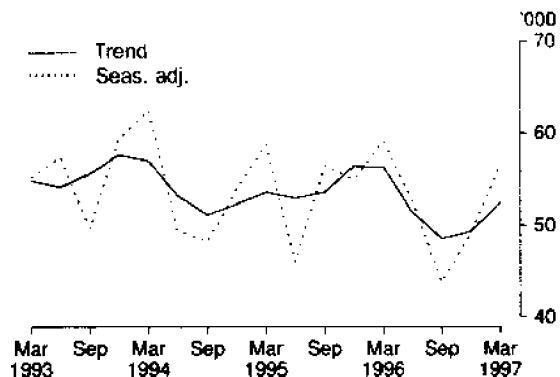
Q5 WOMEN'S SHIRTS AND BLOUSES(f) (seasonally adjusted series average movement 12%)**Q6 UNDRESSED SAWN TIMBER(b)(g)** (seasonally adjusted series average movement 3%)**Q7 HARDWOOD WOODCHIPS** (seasonally adjusted series average movement 7%)**Q8 ALUMINA(b)** (seasonally adjusted series average movement 1%)

For footnotes see page 23.

Longer term trend(a)

Q9 ZINC(b) (seasonally adjusted series average movement 6%)

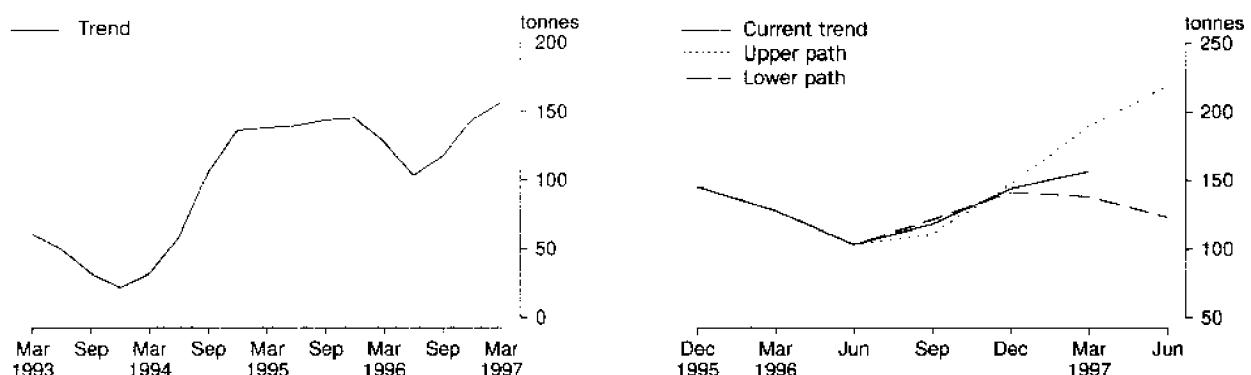
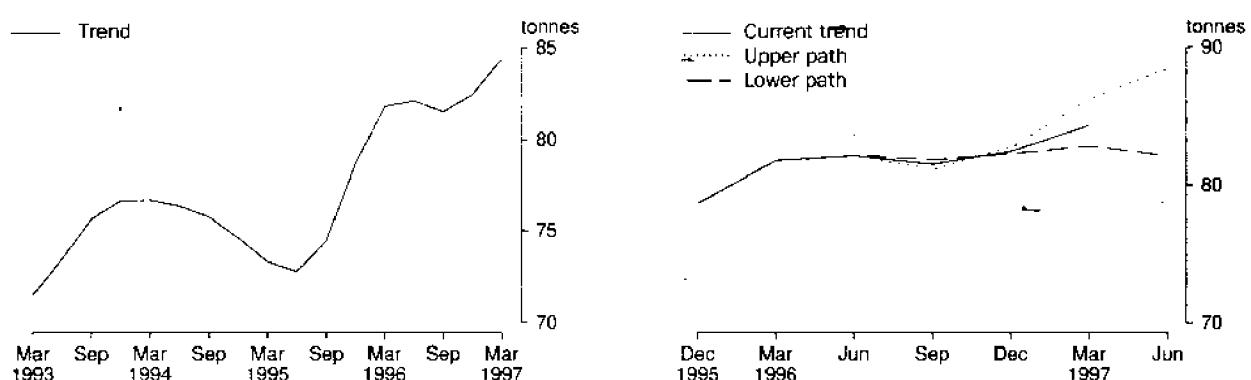
Short-term sensitivity analysis

**Q10 SILVER(b)** (seasonally adjusted series average movement 9%)**Q11 COPPER(b)** (seasonally adjusted series average movement 8%)**Q12 LEAD(b)** (seasonally adjusted series average movement 7%)

For footnotes see page 23.

Longer term trend(a)

Short-term sensitivity analysis

Q13 TIN(b) (seasonally adjusted series average movement 52%)**Q14 GOLD(b)** (seasonally adjusted series average movement 7%)

Percentage changes
between latest month
shown and.....

1996..... 1997.....

No.	item and unit/Series(a)	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	prev. month	same month
											prev. year	
M1	Red meat (000 tonnes)											
	Original r	238	233	198	212	235	228	256	258	233	-10.0	12.3
	Seasonally adjusted r	216	218	219	235	246	227	260	240	242	0.7	11.4
	Trend r	214	218	225	231	237	241	244	246	246	0.3	14.1
M2	Chicken meat (tonnes)											
	Original	44 617	38 860	43 288	42 446	39 097	40 323	42 336	40 583	41 643	2.6	6.1
	Seasonally adjusted	42 523	41 821	40 925	41 022	41 590	39 895	41 006	42 179	42 001	-0.4	5.5
	Trend	41 963	41 819	41 470	41 126	40 973	41 030	41 209	41 448	41 719	0.7	3.9
M3	Cheese(b) (tonnes)											
	Original	31 158	30 244	29 094	25 865	22 038	22 108	20 552	n.y.a.	n.y.a.	-7.0	3.8
	Seasonally adjusted	20 764	20 937	22 724	21 470	23 113	23 600	24 084	n.y.a.	n.y.a.	2.0	3.3
	Trend	20 980	21 325	21 849	22 373	22 877	23 349	23 834	n.y.a.	n.y.a.	2.1	6.7
M4	Butter(b) (tonnes)											
	Original	18 074	20 097	19 433	14 695	10 111	9 975	8 111	n.y.a.	n.y.a.	-18.7	-9.7
	Seasonally adjusted	11 546	12 019	12 211	11 321	10 352	10 619	11 659	n.y.a.	n.y.a.	9.8	-9.8
	Trend	12 756	12 045	11 587	11 282	11 058	10 913	10 929	n.y.a.	n.y.a.	0.1	-19.7
M5	Flour of wheat or of meslin ('000 tonnes)											
	Original	127	130	128	126	131	130	127	135	136	0.8	11.9
	Seasonally adjusted	124	125	142	134	136	129	136	125	133	6.8	12.7
	Trend	128	131	133	134	134	133	132	131	130	-1.0	5.6
M6	Prepared foods from cereals (tonnes)											
	Original	8 713	9 274	6 096	6 692	8 638	9 890	8 422	9 539	8 801	-7.7	13.4
	Seasonally adjusted	8 505	8 870	6 019	7 267	8 930	9 039	9 375	9 496	7 950	-16.3	2.9
	Trend	8 144	7 921	7 837	7 961	8 287	8 655	8 926	9 066	9 203	1.5	12.2
M7	Biscuits(d) (tonnes)											
	Original	12 424	12 052	10 924	7 499	10 529	11 372	12 378	12 555	11 706	-6.8	-8.1
	Seasonally adjusted	11 365	10 967	12 503	11 517	10 936	10 606	14 291	12 185	11 122	-8.7	-10.3
	Trend	11 406	11 365	11 375	11 410	11 434	11 445	11 477	11 529	11 521	-0.1	-3.7
M8	Chocolate based confectionery(d) (tonnes)											
	Original	10 375	10 363	8 461	6 684	9 716	8 806	5 273	9 314	9 166	-1.6	-1.5
	Seasonally adjusted	9 000	9 238	8 640	10 291	9 564	9 851	5 980	9 303	9 007	-3.2	-3.8
	Trend	9 364	9 346	9 392	9 453	9 472	9 418	9 305	9 174	9 065	-1.2	-1.6
M9	Other confectionery (tonnes)											
	Original	7 028	6 694	5 414	3 586	5 701	5 722	4 768	6 436	6 658	3.5	0.8
	Seasonally adjusted	6 267	5 590	5 776	6 124	6 113	6 328	5 400	6 533	6 214	-4.9	-0.5
	Trend	5 971	5 951	5 952	5 969	6 001	6 052	6 103	6 156	6 186	0.5	3.0
M10	Malt (tonnes)											
	Original	50 817	48 372	46 904	46 496	40 764	41 326	46 184	48 893	47 807	-2.2	-11.6
	Seasonally adjusted	52 350	44 076	47 475	48 766	39 103	41 584	48 975	44 792	49 481	10.5	-11.5
	Trend	50 015	48 094	46 161	44 861	44 269	44 458	45 127	46 083	46 857	1.7	-8.0
M11	Beer (megalitres)											
	Original	177	175	156	141	140	150	144	136	118	-13.4	-2.2
	Seasonally adjusted	153	145	128	146	154	151	153	144	140	-3.1	-6.8
	Trend	142	143	144	146	148	149	149	148	147	-0.7	0.9
M12	Tobacco and cigarettes (tonnes)											
	Original	1 838	2 183	1 553	969	2 028	1 805	1 606	2 061	1 856	-9.9	4.5
	Seasonally adjusted	1 980	2 130	1 671	1 638	1 899	1 912	1 752	1 868	1 815	-2.8	-0.1
	Trend	1 905	1 885	1 850	1 823	1 811	1 812	1 822	1 830	1 855	1.3	2.7
M13	Man-made fibre woven fabric ('000 m²)											
	Original	15 479	13 502	9 912	6 933	11 988	11 492	11 129	12 724	11 118	-12.6	1.0
	Seasonally adjusted	14 760	12 137	12 041	10 051	11 467	11 450	11 811	11 641	10 490	-9.9	-0.5
	Trend	12 729	12 460	12 041	11 603	11 343	11 271	11 275	11 276	11 229	-0.4	-2.2
M14	Cotton woven fabric ('000 m²)											
	Original	5 648	5 510	4 083	2 119	4 595	4 700	5 001	5 229	5 118	-2.1	0.2
	Seasonally adjusted	5 415	4 870	4 915	4 628	4 566	4 502	5 384	4 457	4 830	8.4	2.5
	Trend	5 257	5 024	4 832	4 736	4 717	4 723	4 749	4 778	4 795	0.4	-9.5
M15	Cotton yarn (tonnes)											
	Original	3 779	3 220	2 870	2 124	3 257	3 409	3 225	3 344	3 727	11.5	5.7
	Seasonally adjusted	3 606	2 949	3 605	3 288	3 299	3 457	3 354	3 249	3 196	-1.6	6.1
	Trend	3 434	3 419	3 393	3 367	3 349	3 342	3 324	3 300	3 243	-1.7	3.3

For footnotes see page 23.

No.	Item and unit/Series(a)	1996..... 1997.....										Percentage changes between latest month shown and.....	
												prev. month	same month
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	prev. year		
M16 Wool yarn (tonnes)													
Original	1 847	1 613	1 344	1 032	1 554	1 490	1 538	1 545	1 529	-1.0	3.1		
Seasonally adjusted	1 524	1 590	1 631	1 467	1 552	1 726	1 533	1 493	1 558	4.3	2.1		
Trend	1 511	1 542	1 567	1 581	1 581	1 575	1 567	1 557	1 547	-0.6	2.4		
M17 Wool woven fabric ('000 m ²)													
Original	581	723	450	470	555	459	470	619	471	-23.9	-12.0		
Seasonally adjusted	495	692	541	717	487	461	403	585	541	-7.5	-10.4		
Trend	581	598	597	575	542	516	501	494	502	1.6	2.3		
M18 Textile floor coverings ('000 m ²)													
Original	4 434	4 079	3 429	2 449	3 762	3 718	3 979	3 978	3 594	-9.6	10.6		
Seasonally adjusted	3 841	3 609	3 943	3 771	3 653	3 927	3 868	3 834	3 772	-1.6	10.1		
Trend	3 688	3 742	3 780	3 804	3 814	3 820	3 828	3 832	3 819	-0.4	8.5		
M19 Footwear ('000 pairs)													
Original	1 355	1 161	828	713	1 246	1 130	1 179	1 202	1 121	-6.7	2.9		
Seasonally adjusted	1 180	1 110	969	1 275	1 205	1 021	1 174	1 129	1 207	6.9	1.1		
Trend	1 139	1 129	1 126	1 128	1 135	1 142	1 149	1 157	1 167	0.9	-2.8		
M21 Newsprint (tonnes)													
Original	31 685	36 428	33 424	34 772	34 786	34 630	33 907	38 736	31 878	-17.7	-10.2		
Seasonally adjusted	32 976	36 886	33 245	33 867	34 100	34 439	33 317	37 326	32 286	-13.5	-13.6		
Trend	35 593	34 653	34 119	34 013	34 178	34 296	34 341	34 311	34 417	0.3	-8.1		
M22 Wood pulp (tonnes)													
Original	75 903	92 247	75 439	81 657	76 853	80 922	82 398	84 934	67 609	-20.4	-11.8		
Seasonally adjusted	81 984	87 169	78 890	79 265	79 306	78 603	87 367	78 834	68 938	-12.6	-10.9		
Trend	79 503	80 283	81 074	81 307	81 024	80 243	79 221	77 879	76 696	-1.5	-2.7		
M23 Unlaminated particle board ('000 m ³)													
Original	78	74	50	47	65	63	71	69	67	-2.7	0.8		
Seasonally adjusted	65	70	60	79	68	61	68	64	69	6.7	1.4		
Trend	64	66	68	69	68	67	66	66	66	0.2	2.8		
M25 Paperboard containers ('000 tonnes)													
Original	109 883	103 329	86 920	87 546	92 407	88 242	95 081	96 386	88 622	-8.1	9.3		
Seasonally adjusted	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Trend	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
M26 Automotive gasoline(b) (megalitres)													
Original	1 416	1 439	1 523	1 543	1 361	1 551	1 585	n.y.a.	n.y.a.	2.2	2.6		
Seasonally adjusted	1 432	1 530	1 496	1 468	1 417	1 547	1 627	n.y.a.	n.y.a.	5.2	2.6		
Trend	1 478	1 471	1 475	1 487	1 504	1 525	1 551	n.y.a.	n.y.a.	1.7	0.1		
M27 Fuel oil(b) (megalitres)													
Original	119	164	139	173	190	93	184	n.y.a.	n.y.a.	98.6	44.2		
Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.		
Trend	139	145	153	159	161	162	163	n.y.a.	n.y.a.	0.5	13.5		
M28 Aviation turbine fuel(b) (megalitres)													
Original	502	481	401	505	416	491	421	n.y.a.	n.y.a.	-14.3	7.2		
Seasonally adjusted	446	499	355	490	450	507	446	n.y.a.	n.y.a.	-12.0	5.6		
Trend	435	442	448	455	461	466	469	n.y.a.	n.y.a.	0.8	14.2		
M29 Automotive diesel oil(b) (megalitres)													
Original	1 032	1 111	1 135	1 198	1 013	1 152	1 098	n.y.a.	n.y.a.	-4.7	14.9		
Seasonally adjusted	1 032	1 123	1 063	1 164	1 072	1 199	1 133	n.y.a.	n.y.a.	-5.5	14.9		
Trend	1 056	1 078	1 103	1 120	1 132	1 141	1 154	n.y.a.	n.y.a.	1.2	11.4		
M30 Plastics in primary forms ('000 tonnes)													
Original	96	92	94	98	100	110	116	113	108	-4.8	32.3		
Seasonally adjusted	86	96	103	108	104	105	115	118	112	-5.5	26.5		
Trend	95	97	100	103	107	110	112	114	115	1.1	16.8		
M31 Rigid PVC tubes, pipes and hoses(e) (tonnes)													
Original	7 186	7 653	5 993	4 407	8 219	7 853	9 433	11 197	10 006	-10.6	14.0		
Seasonally adjusted	7 281	7 496	6 445	7 316	7 765	7 404	11 196	9 360	9 183	-1.9	8.8		
Trend	7 281	7 060	7 072	7 385	7 912	8 503	9 050	9 497	9 867	3.9	18.0		
M32 Polyethylene bottles up to two litres (million)													
Original	161	189	198	163	171	180	164	161	161	0.3	20.8		
Seasonally adjusted	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Trend	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		

For footnotes see page 23.

No.	Item and unit/Series(a)	1996.....1997.....										Percentage changes between latest month shown and.....	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	prev. month	same month	prev. year
M33 Paint ('000 litres)													
Original	18 331	19 014	15 522	15 667	16 021	15 416	16 280	16 461	15 760	-4.3	7.7		
Seasonally adjusted	17 103	17 303	16 027	17 879	16 274	14 995	17 769	16 064	16 627	3.5	4.5		
Trend	16 418	16 700	16 814	16 754	16 597	16 478	16 435	16 436	16 490	0.3	7.6		
M34 Superphosphates ('000 tonnes)													
Original	187	173	n.p.	n.p.	151	140	144	133	119	-10.6	17.2		
Seasonally adjusted	178	136	n.p.	n.p.	117	100	122	120	185	54.9	24.8		
Trend	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.		
M35 Portland cement ('000 tonnes)													
Original	566	586	r547	417	504	590	579	598	608	1.7	8.8		
Seasonally adjusted	537	529	r580	552	543	591	611	558	596	6.7	9.9		
Trend	544	548	553	560	568	576	582	587	589	0.3	10.4		
M36 Clay bricks (million)													
Original	137	122	110	91	116	123	129	131	129	-1.5	11.0		
Seasonally adjusted	126	120	120	133	121	123	123	122	126	3.2	8.7		
Trend	123	124	124	124	124	124	124	124	124	-0.1	6.0		
M37 Ready mixed concrete ('000 m³)													
Original	1 438	1 404	1 103	1 002	1 203	1 286	1 380	r1 370	1 296	-5.4	12.0		
Seasonally adjusted	1 286	1 335	1 278	1 246	1 273	1 380	1 341	r1 252	1 325	5.9	11.1		
Trend	1 278	1 287	1 293	1 298	1 302	1 307	1 312	1 314	1 318	0.3	9.7		
M38 Basic iron, spiegeleisen and sponge iron(c) ('000 tonnes)													
Original	578	544	612	580	548	677	670	r6 641	579	-9.6	-6.5		
Seasonally adjusted	561	534	623	585	603	680	684	639	577	-9.7	-7.6		
Trend	578	574	585	606	627	640	644	643	633	-1.5	0.7		
M39 Blooms and slabs of iron or steel(c) ('000 tonnes)													
Original	626	590	661	631	590	728	696	648	610	-5.8	-7.3		
Seasonally adjusted	593	581	665	625	638	739	713	655	621	-5.1	-7.4		
Trend	612	612	626	648	668	678	680	676	665	-1.6	-0.5		
M40 Insulated wire (tonnes)													
Original	6 143	7 160	6 252	4 025	5 597	6 484	6 357	r6 036	6 724	11.4	11.4		
Seasonally adjusted	5 490	6 593	7 666	6 767	5 366	5 783	6 707	r5 419	7 032	29.8	11.4		
Trend	6 181	6 348	6 445	6 428	6 312	6 170	6 107	6 121	6 171	0.8	2.6		
M41 Cars and station wagons (no.)													
Original	29 916	26 149	19 124	15 828	23 717	24 621	25 024	30 310	24 405	-19.5	-3.6		
Seasonally adjusted	25 848	24 109	23 351	31 783	24 062	25 698	26 621	26 395	24 276	-8.0	-5.6		
Trend	25 257	25 533	25 916	26 241	26 346	26 276	26 060	25 778	25 413	-1.4	-1.0		
M42 Vehicles for goods and materials (no.)													
Original	2 397	2 227	1 677	1 432	2 122	2 175	2 095	2 336	2 259	-3.3	-6.6		
Seasonally adjusted	2 002	2 090	2 145	2 859	2 198	2 185	1 968	2 054	2 242	9.2	-9.5		
Trend	2 271	2 264	2 277	2 287	2 272	2 226	2 166	2 115	2 075	-1.9	-15.7		
M43 Telephones ('000)													
Original	115	123	84	n.p.	n.p.	n.p.	n.a.	n.a.	n.a.	n.a.	n.a.		
Seasonally adjusted	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
Trend	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
M44 Domestic refrigerators (no.)													
Original	40 414	35 942	31 257	35 171	33 657	32 555	26 895	30 375	29 383	-3.3	7.8		
Seasonally adjusted	34 102	32 567	32 668	32 643	32 661	32 341	28 586	29 466	33 543	13.8	2.4		
Trend	35 072	34 147	33 228	32 370	31 706	31 300	31 028	30 887	30 872	—	-6.2		
M45 Water heaters (no.)													
Original	61 774	56 240	39 683	20 348	49 161	53 757	55 058	61 686	52 388	-15.1	3.6		
Seasonally adjusted	54 153	51 776	42 799	43 914	50 406	49 888	66 849	54 213	49 908	-7.9	0.6		
Trend	49 592	48 054	47 608	48 520	50 418	52 574	54 455	55 688	56 565	1.6	11.6		
M46 Domestic clothes washing machines (no.)													
Original	24 860	22 056	15 492	8 093	20 726	24 505	22 959	27 648	21 886	-20.8	-20.1		
Seasonally adjusted	21 854	19 924	18 235	15 856	21 340	28 094	22 827	27 440	22 151	-19.3	-18.6		
Trend	20 209	19 020	19 048	20 082	21 560	23 023	24 239	25 075	25 611	2.1	5.6		
M47 Electric motors ('000)													
Original	248	249	201	168	219	225	238	244	181	-25.8	-15.0		
Seasonally adjusted	214	231	236	256	208	240	241	225	180	-20.0	-18.9		
Trend	224	227	232	235	236	232	225	217	209	-3.9	-4.9		

For footnotes see page 23.

No.	Item and unit/Series(a)	1996..... 1997.....										Percentage changes between latest month shown and.....	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	prev. month	same month	prev. year
M48 Electricity (million kWh)													
Original	13 733	13 460	13 569	13 811	13 421	13 734	13 484	14 479	14 938		3.2	4.0	
Seasonally adjusted	13 770	14 046	13 969	13 976	14 519	14 426	13 677	14 122	14 472		2.5	3.7	
Trend	13 871	13 956	14 048	14 123	14 162	14 178	14 189	14 200	14 225		0.2	1.8	
M49 Gas (terajoules)													
Original	50 582	48 590	47 218	46 011	42 818	46 489	48 919	59 083	63 757		7.9	8.8	
Seasonally adjusted	49 609	45 2433	55 426	57 643	53 032	51 683	52 139	55 205	54 837		-0.7	9.0	
Trend	52 334	53 097	53 682	54 013	54 035	53 815	53 649	53 650	53 692		0.1	4.1	

(a) Trend estimates shown may have been revised. See paragraph 14 of the Explanatory notes on page 27.

(b) Source: non-ABS. See paragraphs 2 and 6 to 8 of the Explanatory notes on page 26.

(c) This data item comprises production of BHP Steel only.

(d) Trend estimates for this series were adjusted, to allow for recent abnormal production levels, but which have now returned to normal.

(e) Recent movements in this series have caused some uncertainty in its trend estimates from April 1997. Although these changes may be sustained, a larger span of data is required before the final trend for this series can be determined.

(f) Improved coverage for this item has resulted in a break in series in December quarter 1996. For December quarter, this has resulted in the estimate of production being approximately 7% above what would have previously been reported. Revised estimates for previous quarters are not available.

(g) Improved coverage for this item has resulted in a break in series in September quarter 1996. For September quarter, this has resulted in the estimate of production being approximately 40% above what would have previously been reported. Revised estimates for previous quarters are not available.

No.	Item and unit/Series(a)	1995.....				1996.....				1997....				Percentage changes between latest quarter shown and....		
														prev. quarter	same quarter	prev. year
		Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Mar	Mar	Mar			
Q1	Men's and boys' long trousers ('000)															
	Original	822	944	1 013	753	788	923	1 065	740	736	-0.6	-6.6				
	Seasonally adjusted	932	858	977	768	893	839	1 027	756	835	10.5	-6.5				
	Trend	947	907	879	851	863	893	898	856	819	-4.3	-5.1				
Q2	Women's and girls' long trousers ('000)															
	Original	628	443	252	202	359	458	247	177	479	171.3	33.2				
	Seasonally adjusted	510	414	275	261	288	429	271	228	382	67.2	32.4				
	Trend	478	403	305	277	316	331	309	294	304	3.3	-3.9				
Q3	Jeans ('000)															
	Original	641	887	979	764	706	851	852	771	615	-20.2	12.9				
	Seasonally adjusted	777	813	857	810	858	779	746	817	749	-8.3	-12.7				
	Trend	799	812	833	842	819	794	779	773	773	0.1	-5.6				
Q4	Men's and boys' shirts ('000)															
	Original	2 347	2 554	2 841	2 741	2 179	2 529	2 974	2 363	1 987	-15.9	-8.8				
	Seasonally adjusted	2 859	2 772	2 404	2 557	2 632	2 741	2 519	2 212	2 390	8.0	-9.2				
	Trend	2 767	2 667	2 561	2 542	2 638	2 642	2 504	2 366	2 272	-4.0	-13.9				
Q5	Women's shirts and blouses(f) ('000)															
	Original	806	864	1 202	1 132	697	674	1 511	1 560	871	-44.2	24.9				
	Seasonally adjusted	1 009	1 076	935	1 017	874	835	1 177	1 403	1 093	-22.1	25.0				
	Trend	1 047	1 006	998	935	883	970	1 127	1 240	1 240	--	40.4				
Q6	Undressed sawn timber(b)(g) ('000 m³)															
	Original	883	925	951	840	800	835	1 235	1 053	1 024	-2.8	28.0				
	Seasonally adjusted	940	907	904	850	850	820	1 173	1 066	1 087	1.9	27.9				
	Trend	931	916	892	843	847	928	1 032	1 098	1 129	2.9	33.3				
Q7	Hardwood woodchips ('000 tonnes)															
	Original	1 402	1 332	1 334	1 203	1 163	1 128	1 128	1 128	1 106	-1.9	-4.8				
	Seasonally adjusted	1 477	1 324	1 269	1 211	1 224	1 120	1 073	1 136	1 165	2.5	-4.9				
	Trend	1 420	1 364	1 277	1 226	1 183	1 132	1 110	1 121	1 151	2.7	-2.7				
Q8	Alumina(b) ('000 tonnes)															
	Original	3 203	3 299	3 348	3 297	3 311	3 336	3 334	3 341	3 201	-4.2	-3.3				
	Seasonally adjusted	3 232	3 308	3 307	3 302	3 337	3 345	3 293	3 348	3 225	-3.7	-3.4				
	Trend	3 245	3 284	3 307	3 321	3 326	3 334	3 324	3 297	3 266	-0.9	-1.8				
Q9	Zinc(b) ('000 tonnes)															
	Original	72	81	82	85	81	82	82	81	77	-4.9	-4.9				
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.				
	Trend	77	78	82	84	83	82	81	80	81	0.3	-3.2				
Q10	Silver(b) (tonnes)															
	Original	93	89	89	75	90	97	84	85	84	-1.2	-6.7				
	Seasonally adjusted	95	83	89	80	91	90	84	91	84	-8.1	-7.3				
	Trend	88	87	85	85	87	88	88	87	86	-0.7	-1.1				
Q11	Copper(b) ('000 tonnes)															
	Original	71	55	78	63	68	83	82	83	61	-26.5	-10.3				
	Seasonally adjusted	75	56	71	64	72	84	75	85	64	-24.8	-10.5				
	Trend	68	65	64	68	74	79	80	77	71	-7.4	-3.3				
Q12	Lead(b) ('000 tonnes)															
	Original	53	49	57	56	54	56	44	50	52	4.0	-3.7				
	Seasonally adjusted	59	46	56	55	59	53	44	49	57	15.2	-4.3				
	Trend	54	53	54	56	56	51	49	49	53	6.5	-6.7				
Q13	Tin(b) (tonnes)															
	Original	180	65	165	160	90	135	100	135	160	18.5	77.8				
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.				
	Trend	138	140	144	145	128	104	118	144	157	9.0	22.4				
Q14	Gold(b) (tonnes)															
	Original	74	74	75	75	85	83	81	81	85	5.2	0.5				
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.				
	Trend	73	73	74	79	82	82	82	82	84	2.3	3.1				

For footnotes see page 23.

WHAT IF...? Revisions to Trend Estimates

THE EFFECT OF NEW SEASONALLY ADJUSTED ESTIMATES

Each time new seasonally adjusted estimates become available, trend estimates are revised (see paragraphs 13 to 15 of the Explanatory notes, on page 27).

TREND REVISIONS

The example in the table below shows four illustrative scenarios and the consequent revisions to previous trend estimates of red meat production.

- 1** The July seasonally adjusted estimate is the same as the June estimate.
- 2** The July seasonally adjusted estimate is higher than the June estimate by 4%.
- 3** The July seasonally adjusted estimate is lower than the June estimate by 4%.
- 4** The July seasonally adjusted estimate results in a revised June trend estimate which is identical to the new July trend estimate.

The percentage change of 4% was chosen because it currently represents the average absolute monthly percentage change for this series over the last thirty years.

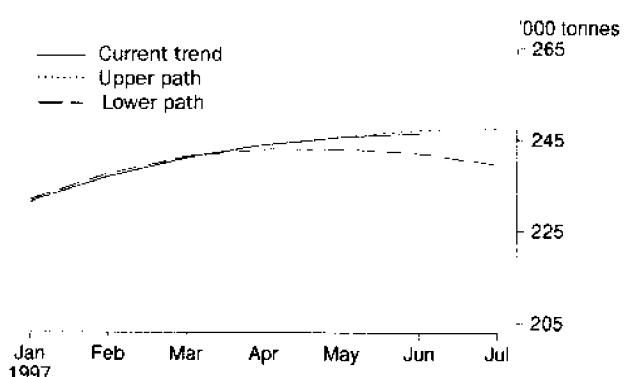
M1 RED MEAT ('000 tonnes)

WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:

	1 TREND as PUBLISHED	2 i.e. the same as June 1997	3 i.e. rises by 4%	4 i.e. falls by 4% for June and July
1997				
April	244	243	244	243
May	246	244	246	243
June	246	244	247	242
July (new)	—	244	248	240
				246

Of these series, the trend as published ('Current trend'), trend scenario **2** ('Upper path') and trend scenario **3** ('Lower path') are shown in the 'Short-term sensitivity analysis' graphs, as this example shows.

SHORT-TERM SENSITIVITY ANALYSIS OF RED MEAT



EXPLANATORY NOTES

INTRODUCTION

1 This publication presents monthly and quarterly estimates of production of selected major manufacturing indicators for Australia.

SCOPE AND COVERAGE

2 Data presented in this publication are collected from a number of different sources. The prime source is the ABS surveys of manufacturing production. Data are also obtained from surveys undertaken by the Department of Primary Industries and Energy (DPIE), the Australian Bureau of Agricultural and Resource Economics (ABARE), the Australian Dairy Corporation (ADC), the Australian Tobacco Marketing Committee (until April 1995) and from ABS agriculture collections. Scope and coverage varies slightly depending on the source of the information.

3 Where production statistics are collected by the ABS manufacturing production surveys, they are not collected from single establishment manufacturing businesses with less than four persons employed nor from establishments predominantly engaged in non-manufacturing activities but which may carry out some manufacturing in a minor way. However, in general, the contribution of these small producers to statistical aggregates is only marginal and data contained in this publication provide reliable information for the evaluation of movements in commodity production.

4 The statistics on meat production include data collected from abattoirs and other major slaughtering establishments and include estimates of animals slaughtered on farms and by country butchers and other small slaughtering establishments for human consumption.

5 The statistics on chicken meat have been collected from commercial poultry slaughtering establishments. Producers in Tasmania, the Northern Territory and the Australian Capital Territory and the very small producers are excluded from the collection.

6 Data on the production of quarterly estimates of base metal production and sawn timber are obtained from the ABARE publication *Mineral Statistics* and as unpublished data.

7 Data on the production of fuels are obtained from the DPIE Petroleum and Fisheries Division publication *Australian Petroleum Statistics*, from July 1996. Previously, these data were obtained from ABARE.

8 Data on the production of cheese and butter are obtained from the ADC publication *Dairystats*. Data on tobacco and cigarettes produced were obtained from the Australian Tobacco Marketing Committee until April 1995.

COMPARABILITY WITH OTHER ESTIMATES

9 The ABS publishes quarterly estimates of constant price manufacturing production in the publication *Indexes of Industrial Production, Australia* (Cat. no. 8125.0). These estimates are shown as index numbers and are derived mainly from estimates of manufacturers' sales and stocks.

10 The production statistics collected monthly and quarterly referred to in paragraph 1 account, in total, for less than half of the output of the manufacturing sector. For information on general trends in the manufacturing sector, refer to the publication referred to in paragraph 9.

EXPLANATORY NOTES *continued*

SEASONALLY ADJUSTED AND TREND ESTIMATES

- 11** Seasonally adjusted statistics are shown for most of the data items contained in this publication. In the seasonal adjustment, account has been taken not only of normal seasonal factors, but also where appropriate, of 'working day' effects (arising from the varying numbers of Sundays, Mondays, Tuesdays, etc. in the month) and the influence of Easter and Australia Day which may, in successive years, affect figures for different months or quarters. Details of the methods used in seasonally adjusting these series are available on request.
- 12** Seasonal adjustment procedures do not aim to remove the irregular or non-seasonal influences which may be present in any particular month or quarter, such as the non-systematic effect of strikes, holiday shutdowns, providers' inconsistent reporting periods (where, for example, a 'month' may variously represent 4 or 5 weeks production), or other factors which vary with the prevailing demand for products. Irregular influences that are highly volatile can make it difficult to interpret the movement of the series even after seasonal adjustment.
- 13** The smoothing of seasonally adjusted series to create trend estimates is a means of reducing the impact of the irregular component of the series. The trend estimates have been derived by applying a 13-term Henderson weighted moving average to the monthly and a 7-term moving average to the quarterly seasonally adjusted series. The 7- and 13-term Henderson averages (like all Henderson averages) are symmetric but, as the end of a time series is approached, asymmetric forms of the average are applied. Unlike the weights of the standard 7-term Henderson moving average, the surrogate weights employed with the quarterly data have been tailored to suit the particular characteristics of individual series.
- 14** While the asymmetric weights enable trend estimates for recent months or quarters to be produced, it does result in revisions to the estimates for the most recent months or quarters as additional observations become available. Generally, subsequent revisions become smaller and after 3 months or 2 quarters have little impact on the series. There will also be revisions as a result of revisions to the original estimates and annual reviews of seasonal and 'working day' factors.
- 15** Users may wish to refer to the ABS Information Paper *A Guide to Interpreting Time Series—Monitoring 'Trends', an overview* (Cat. no. 1348.0) for more detailed information on smoothing of seasonally adjusted time series data.

RELATED PUBLICATIONS

- 16** Other ABS publications which may be of interest are
- *Australian Mining Industry* (Cat. no. 8414.0) issued annually
 - *Indexes of Industrial Production, Australia* (Cat. no. 8125.0) issued quarterly
 - *Information Paper: Availability of Statistics Related to Manufacturing, 1996* (Cat. no. 8205.0), released on 21 March 1996
 - *International Trade, Australia: FASTTRACCS Service—Hardcopy Reports* (Cat. no. 5461.0)
 - *Livestock products, Australia* (Cat. no. 7215.0) issued monthly
 - *Manufacturing Industry, Australia* (Cat. no. 8221.0) issued annually
 - *Manufacturing Industry, Australia: Preliminary* (Cat. no. 8201.0) issued annually

E X P L A N A T O R Y N O T E S *continued*

- *Manufacturing Production, Australia: Principal Commodities Produced, 1989–90* (Cat. no. 8365.0)
- *Stocks, Selected Industry Sales and Expected Sales, Australia* (Cat. no. 5629.0) issued quarterly

UNPUBLISHED STATISTICS

17 Additional manufacturing production data are collected by the ABS through user funded surveys and are available to users as a special data service. These series are:

domestic refrigerators
domestic deep-freezers
water heaters
clothes drying machines
domestic cooking stoves, ovens and ranges
space heaters
mowers
air conditioners
audio cassette tapes
audio compact discs
liquid supply or production meters
brass bars, rods and sections
strip for retreading rubber tyres
gas
semi-trailers
mineral waters and aerated waters
starches, wheat gluten and glucose
ham and bacon and canned meat
ready mixed concrete
concrete blocks, bricks and pavers
roof tiles
clay bricks
Portland cement
mattresses and mattress supports
knitted underwear
foundation garments
footwear

A more detailed breakdown of most published series is also available as a special data service.

For further information, please call John Ridley on Sydney (02) 9268 4541.

CURRENT PUBLICATIONS

18 Current publications produced by the ABS are listed in the *Catalogue of Publications and Products* (Cat. no. 1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (Cat. no. 1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

APPENDIX CLARIFICATION OF TERMS

M1 Red meat	Includes veal, pork and buffalo.
M2 Chicken meat	Expressed in the dressed weight of whole birds, pieces and giblets.
M3 Cheese	Includes fresh cheeses such as ricotta, cottage, cream and quark.
M4 Butter	Includes direct butter oil.
M5 Flour of wheat or of meslin	Excludes self-raising flour.
M6 Prepared foods from cereals	Prepared foods obtained by the swelling or roasting of cereals or cereal products.
M7 Biscuits	Sweet biscuits and other biscuits, waffles, wafers and ginger bread; excludes dog biscuits and crispbread.
M8 Chocolate based confectionery	Includes confectionery containing chocolate; excludes chocolate biscuits and chocolate intended for further manufacturing.
M9 Other confectionery	Excludes chocolate based confectionery. →
M10 Malt	Includes malt flour.
M11 Beer	Includes ale and stout; excludes low alcohol beer containing less than 1.15% but more than 0.5%, by volume of alcohol.
M12 Tobacco and cigarettes	Includes those containing tobacco substitutes.
M13 Man-made fibre woven fabric	Broadwoven fabric of, or predominantly of, synthetic staple fibres and/or filament.
M14 Cotton woven fabric	Broadwoven fabric of, or predominantly of, cotton; excludes gauze.
M15 Cotton yarn	Of, or predominantly of cotton, reported on a single yarn basis; excludes sewing thread.
M16 Wool yarn	Of, or predominantly of, wool or fine animal hair.
M17 Wool woven fabric	Broadwoven woollen and worsted fabrics of, or predominantly of, wool or fine animal hair.
M18 Textile floor coverings	Consisting of carpets, carpeting (excluding underfelt), floor rugs, mats and matting of, or predominantly of, textile materials.
M19 Footwear	Includes sports and waterproof footwear; excludes thongs.
M21 Newsprint	Excludes directory paper, mechanical and printing paper.
M22 Wood pulp	Expressed as air-dried weight.
M23 Unlaminated particle board	Particle or similar boards of wood or other ligneous materials whether or not for subsequent conversions to other purposes; excludes fibreboard and fibre paperboard.
M25 Paperboard containers	Includes corrugated paperboard and solid paperboard containers.
M26 Automotive gasoline	Produced by Australian refineries from imported and indigenous petroleum.

APPENDIX CLARIFICATION OF TERMS *continued*

M27 Fuel oil	Oils derived from the distillation of petroleum which are generally used for domestic heating or fuelling furnaces; produced by Australian refineries from imported and indigenous petroleum.
M28 Aviation turbine fuel	Produced by Australian refineries from imported and indigenous petroleum.
M29 Automotive diesel oil	Produced by Australian refineries from imported and indigenous petroleum.
M30 Plastics in primary forms	Includes liquid, paste, powder, granules, flakes, blocks, irregular shapes, lumps and similar forms.
M31 Rigid PVC tubes, pipes and hoses	Plastic tubes, pipes and hose of rigid polyvinyl chloride. Excludes electrical conduit.
M32 Polyethylene bottles up to two litres	Plastic bottles of polyethylene, up to and including two litres.
M33 Paint	Includes architectural, decorative and industrial enamels and clears, heavy duty coatings and wood stains; marine coatings are included from January 1995.
M34 Superphosphates	Expressed in terms of single super phosphate (9% P equivalent).
M35 Portland cement	Includes blended portland cement. Excludes both portland cement clinker and portland cement used to make blended portland cement in-house.
M36 Clay bricks	Saleable bricks removed from kiln; excludes firebricks and bricks for other than structural purposes.
M37 Ready mixed concrete	Excludes production used or for use within the same business.
M38 Basic iron, spiegeleisen and sponge iron	In pigs, blocks and other primary forms; includes pig iron.
M39 Blooms and slabs of iron or steel	Continuous cast; includes steel in the molten state.
M40 Insulated wire	Includes cables and other insulated electrical conductors; excludes coaxial cables and automotive low voltage wire and ignition wiring sets.
M41 Cars and station wagons	Cars and station wagons for less than 10 persons; excludes mini-buses, passenger mini-vans.
M42 Vehicles for goods and materials	Excludes off-highway trucks, fork lift trucks and semi-trailers.
M43 Telephones	Excludes keyphones.
M44 Domestic refrigerators	One and two door models, includes combination refrigerator freezers.
M45 Water heaters	Includes solar.
M46 Domestic clothes washing machines	Of a dry linen capacity not exceeding 10 kg.
M47 Electric motors	Includes direct current generators; excludes motors and generators for motor vehicles and aircraft.
M48 Electricity	Excludes purchases or transfers in of electricity.

APPENDIX CLARIFICATION OF TERMS *continued*

M49 Gas	Gas (including natural gas) available for issue through mains. From July 1996, includes gas production for distribution via natural gas pipelines which service a single user.
Q1 Men's and boys' long trousers	Excludes jeans and waterproof trousers and trousers made as part of a complete suit.
Q2 Women's and girls' long trousers	Excludes jeans and waterproof trousers.
Q3 Jeans	Men's, women's, boys' and girls' jeans; excludes shorts.
Q4 Men's and boys' shirts	Excludes sweatshirts and nightshirts.
Q5 Women's shirts and blouses	Excludes sweatshirts and nightshirts.
Q6 Undressed sawn timber	Expressed in terms of green off saw volumes.
Q7 Hardwood woodchips	Expressed as greenweight; excludes chips which are not sold or are used in own works.
Q8 Alumina	Aluminium oxide.
Q9 Zinc	Primary origin only.
Q10 Silver	Refined.
Q11 Copper	Primary origin only.
Q12 Lead	Includes lead content of lead from primary sources.
Q13 Tin	Primary origin only.
Q14 Gold	From primary and secondary sources.

For more information . . .

The ABS publishes a wide range of statistics and other information on Australia's economic and social conditions. Details of what is available in various publications and other products can be found in the ABS Catalogue of Publications and Products available from all ABS Offices.

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