



May 1997

EMBARGO: 11:30 AM (CANBERRA TIME) WED 2 JULY 1997

# Manufacturing Production

## Australia

# NOTES

## FORTHCOMING ISSUES

<i>ISSUE</i>	<i>RELEASE DATE</i>
June 1997	31 July 1997
September quarter 1997	12 November 1997
December quarter 1997	11 February 1998

\*\*\*\*\*

## 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.

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## 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, 23 showed rising production trends, 15 showed falling trends while 19 were relatively stable.

PUBLISHED PRODUCTION TREND.....				
	<i>Indicators available</i>	<i>Rising</i>	<i>Falling</i>	<i>Stable</i>
March 1997 issue	57	24	17	16
April 1997 issue	57	20	13	24
May 1997 issue	57	24	17	16

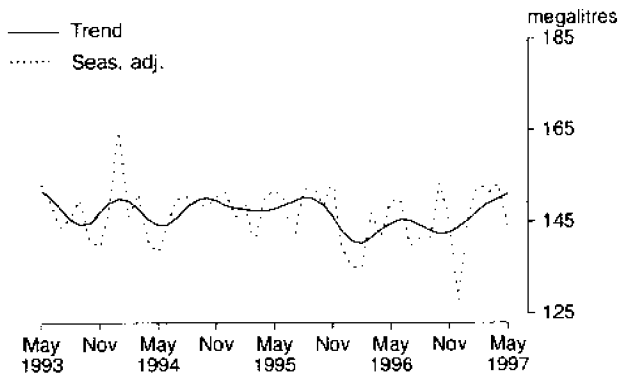
## SERIES TRENDS

Two of the more notable trends were production of beer and Portland cement. The trend for production of beer is rising (by 0.8%), after starting to rise in November 1996. This series will continue to rise in June 1997 if there is an increase in the **seasonally adjusted** series of more than 2% (the average movement for this series is 5%).

Portland cement production for May 1997 is also rising (by 0.7%), continuing to rise from a low point in June 1996. This series will continue to rise in June 1997 if the **seasonally adjusted** series increases by 4% (the average movement for this series is 5%).

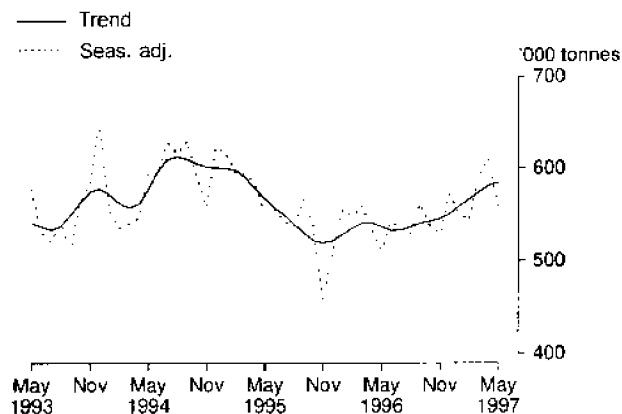
### M11 BEER

(Seas. adj. series average movement 5%)



### M35 PORTLAND CEMENT

(Seas. adj. series average movement 5%)

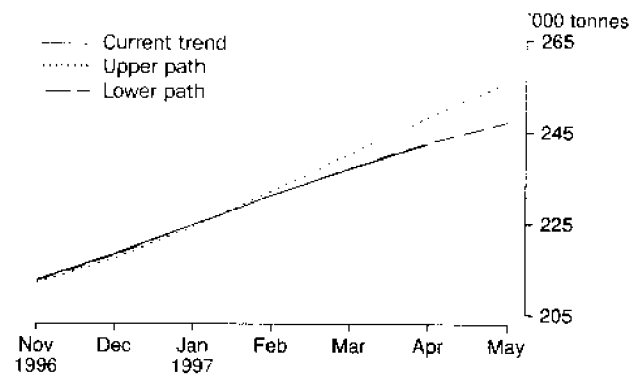
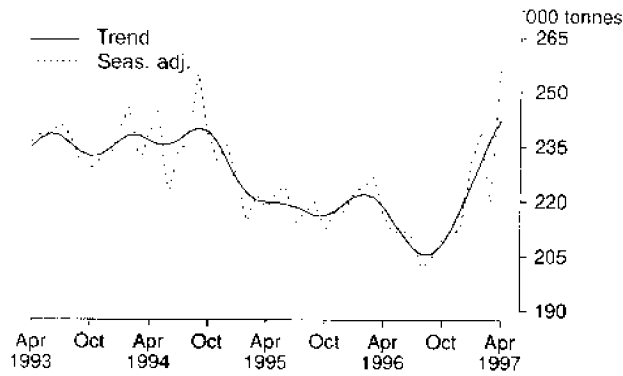


# M MONTHLY PRODUCTION

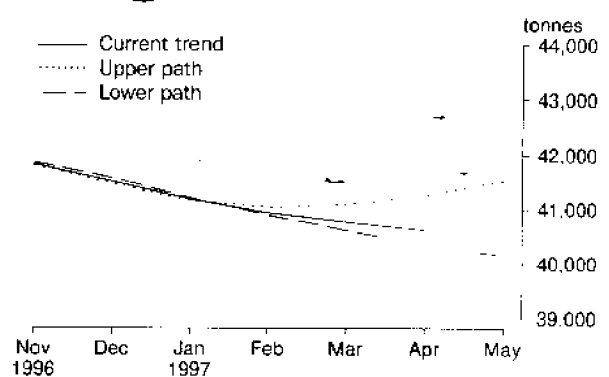
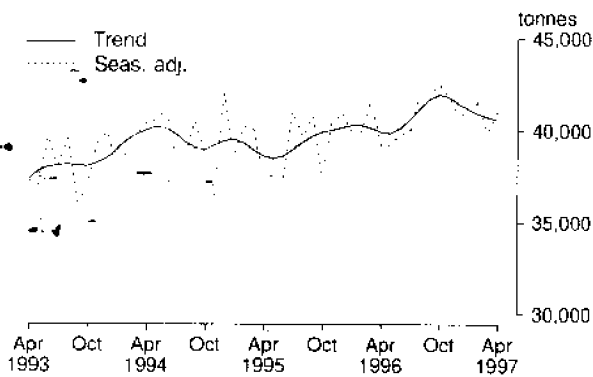
## Longer term trend(a)

## Short-term sensitivity analysis

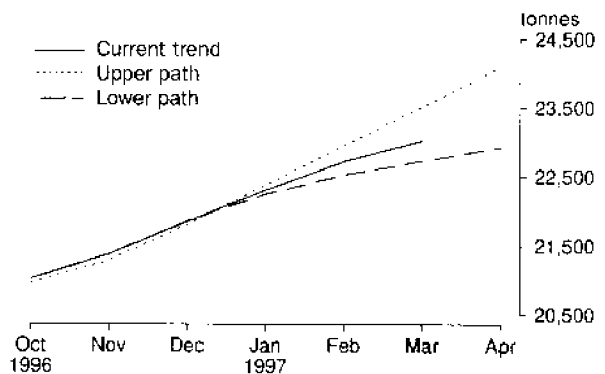
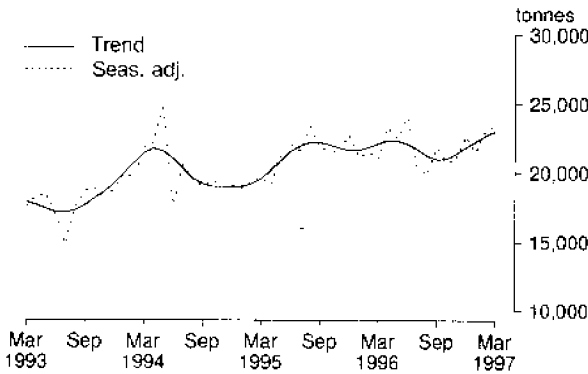
**M1 RED MEAT** (seasonally adjusted series average movement 4%)



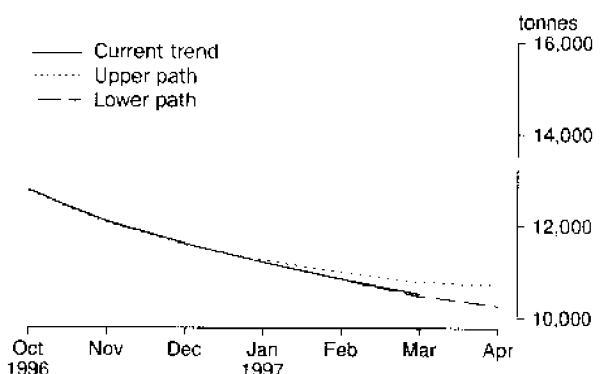
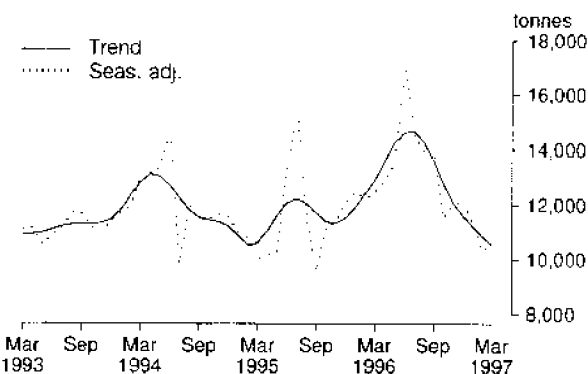
**M2 CHICKEN MEAT** (seasonally adjusted series average movement 4%)



**M3 CHEESE(b)** (seasonally adjusted series average movement 6%)



**M4 BUTTER(b)** (seasonally adjusted series average movement 7%)



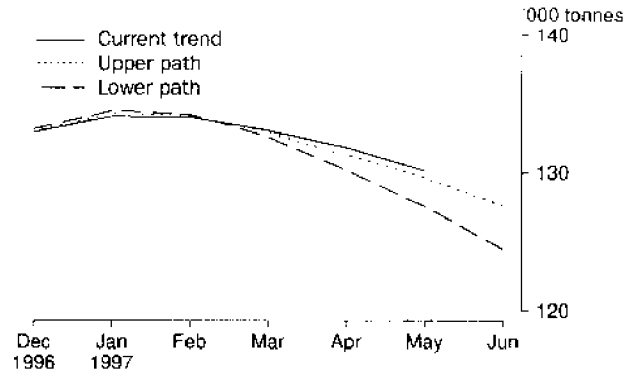
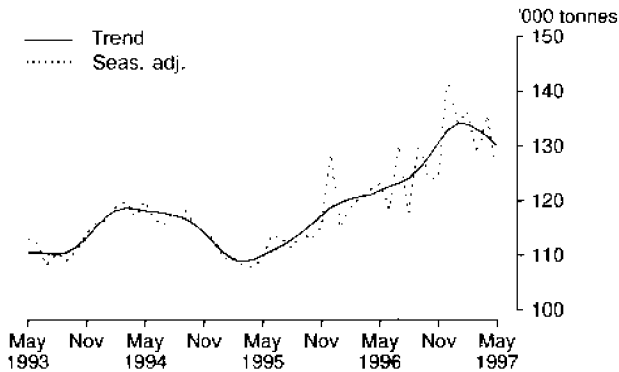
# M

## MONTHLY PRODUCTION *continued*

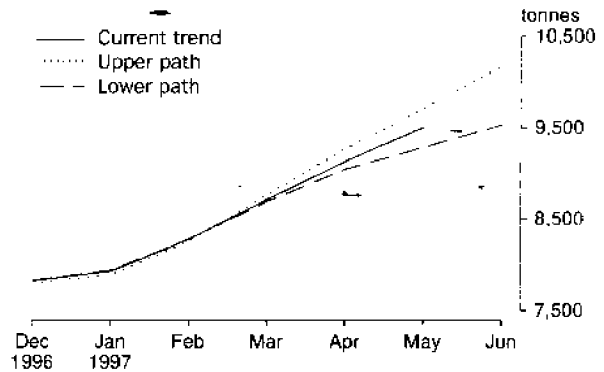
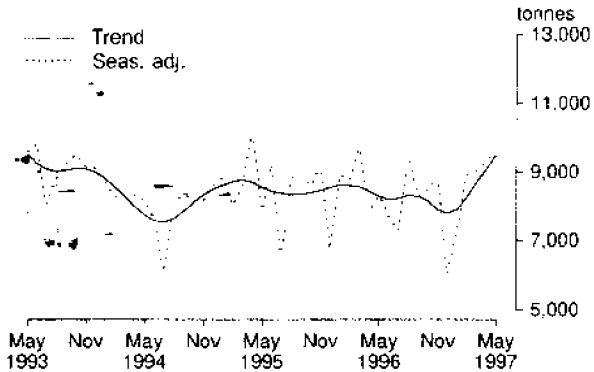
### Longer term trend(a)

### Short-term sensitivity analysis

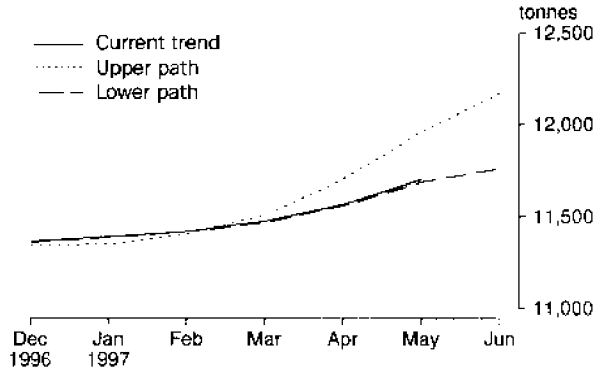
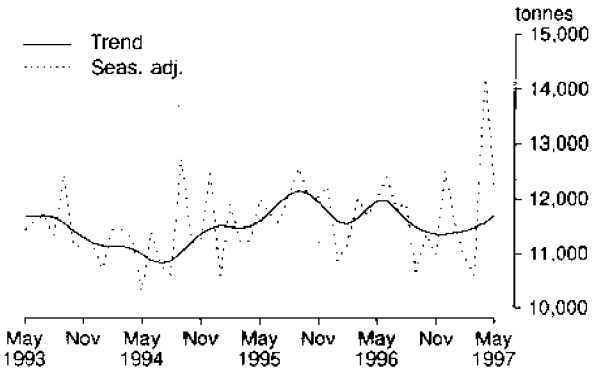
#### M5 FLOUR OF WHEAT OR OF MESLIN (seasonally adjusted series average movement 3%)



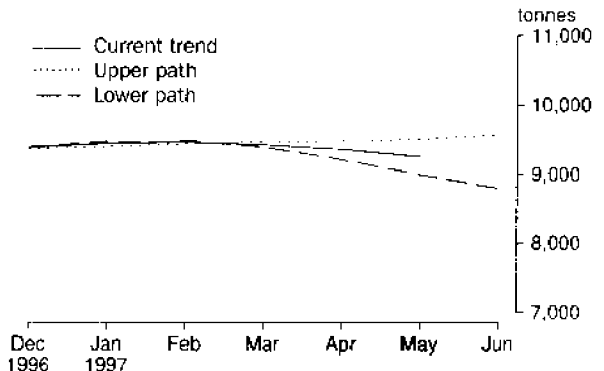
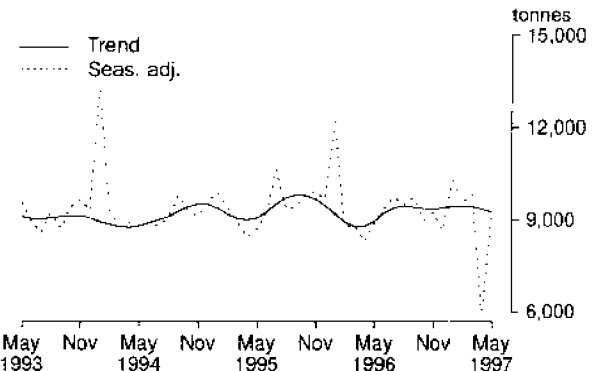
#### M6 PREPARED FOODS FROM CEREALS (seasonally adjusted series average movement 8%)



#### 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.

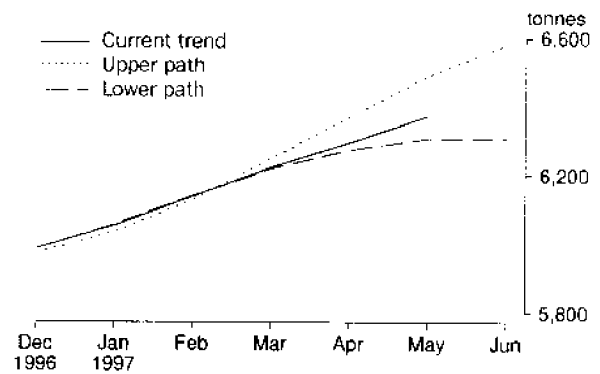
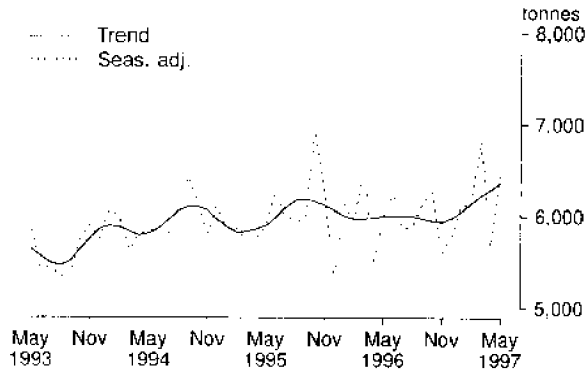
# M

## MONTHLY PRODUCTION *continued*

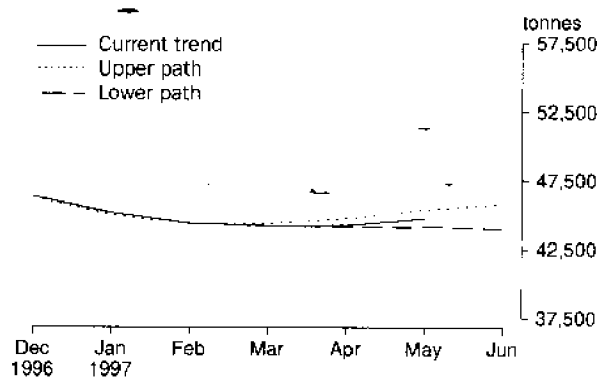
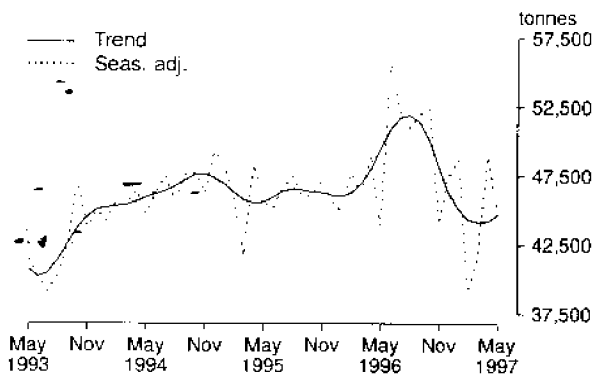
### Longer term trend(a)

### Short-term sensitivity analysis

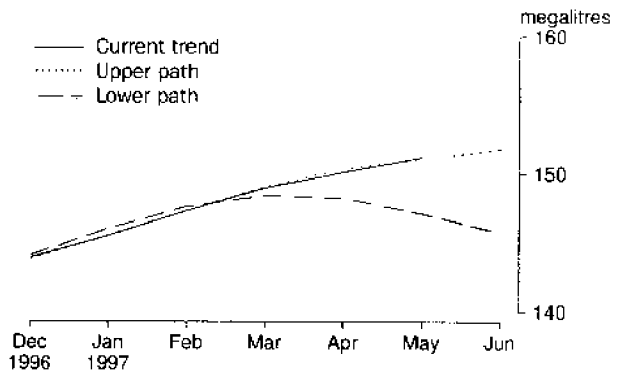
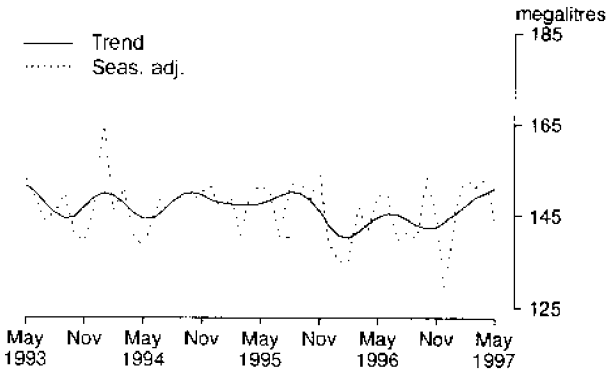
#### M9 OTHER CONFECTIONERY (seasonally adjusted series average movement 5%)



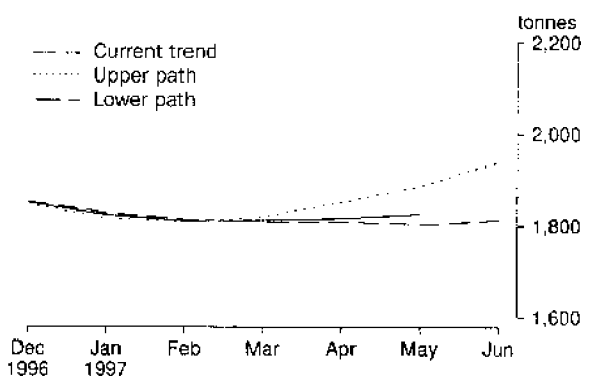
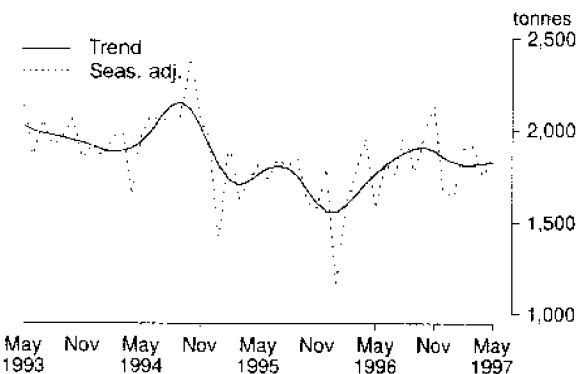
#### M10 MALT (seasonally adjusted series average movement 5%)



#### M11 BEER (seasonally adjusted series average movement 5%)



#### M12 TOBACCO AND CIGARETTES(b) (seasonally adjusted series average movement 8%)

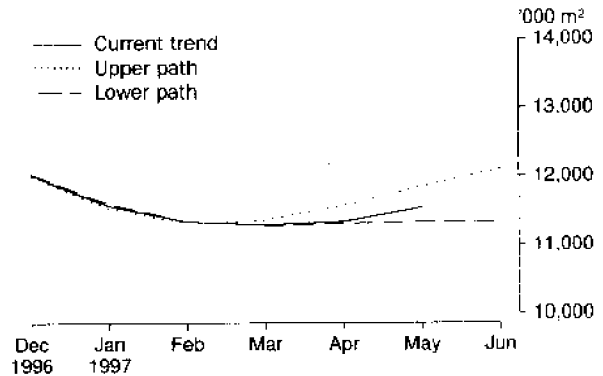
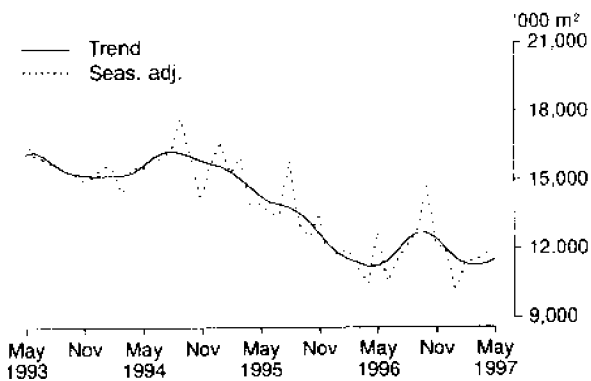


For footnotes see page 23.

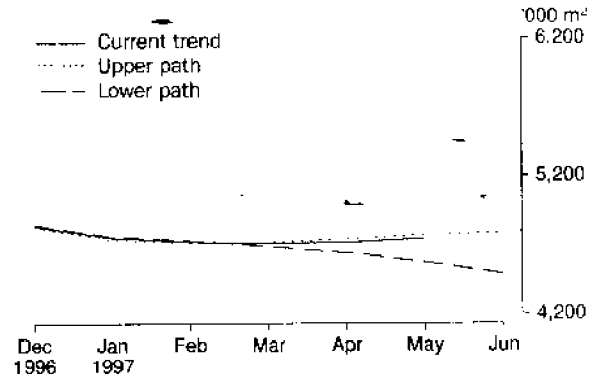
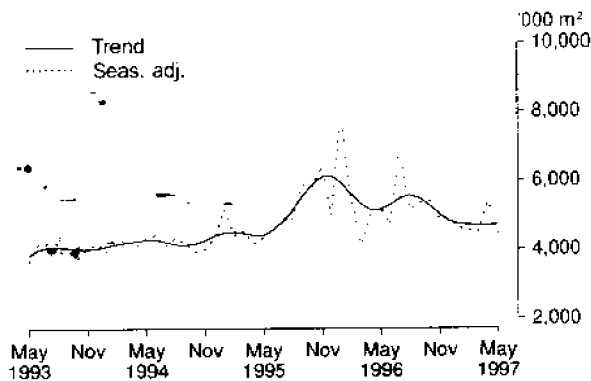
Longer term trend(a)

Short-term sensitivity analysis

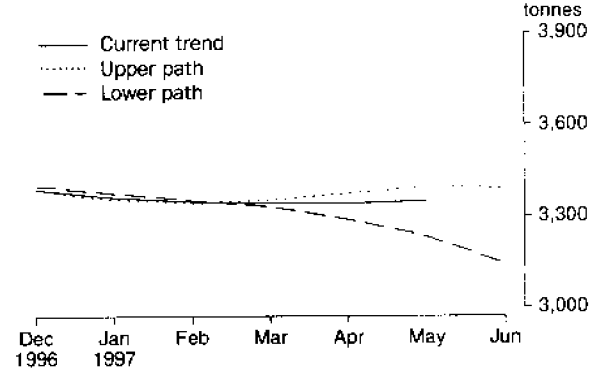
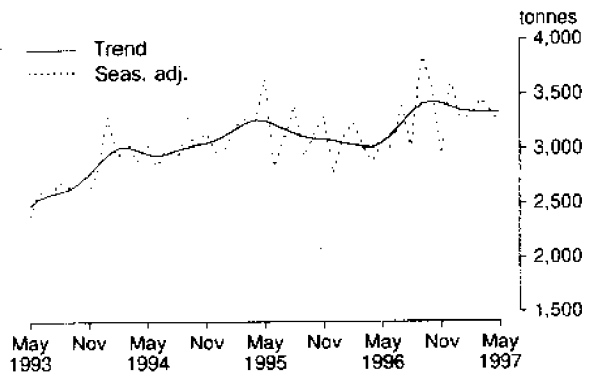
**M13 MAN-MADE FIBRE WOVEN FABRIC** (seasonally adjusted series average movement 8%)



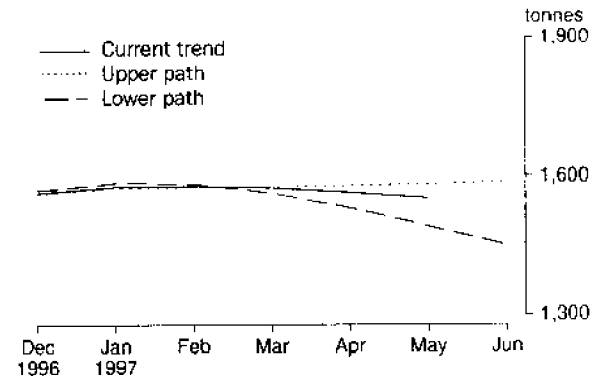
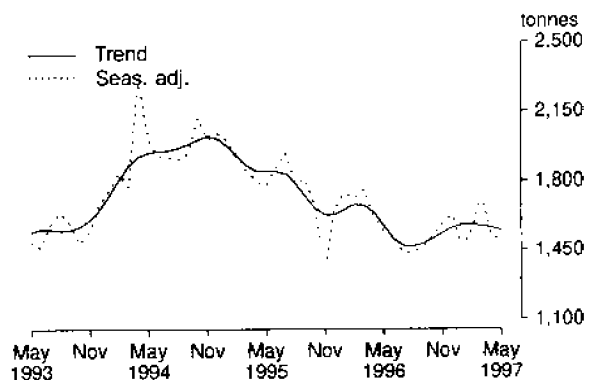
**M14 COTTON WOVEN FABRIC** (seasonally adjusted series average movement 9%)



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



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



For footnotes see page 23.



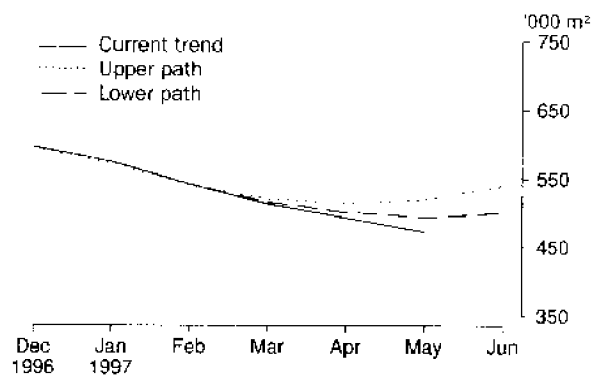
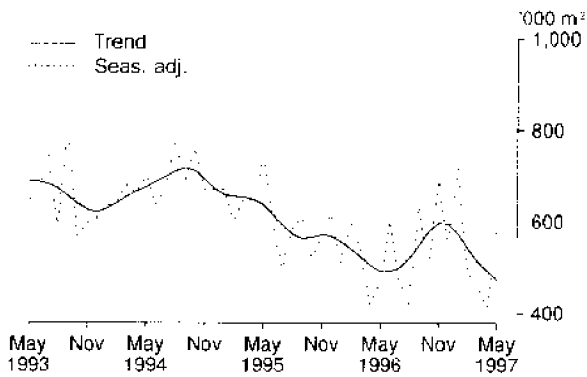
# M

## MONTHLY PRODUCTION *continued*

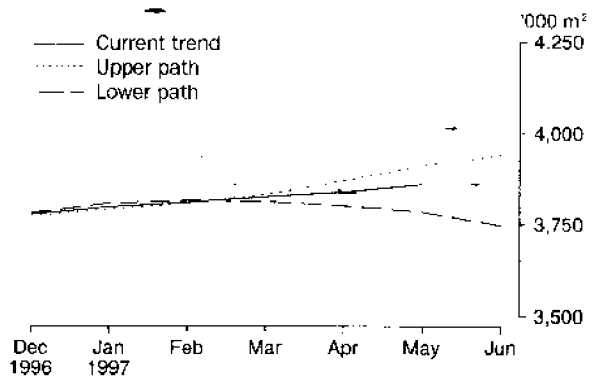
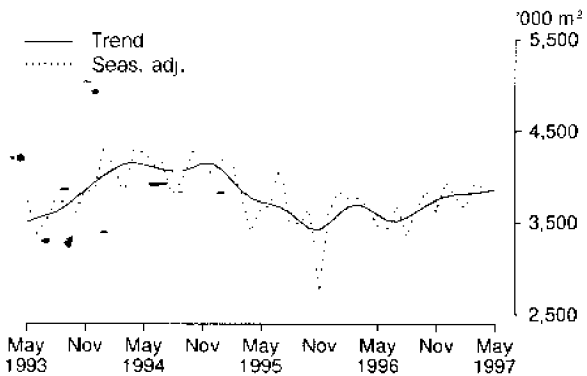
### Longer term trend(a)

### Short-term sensitivity analysis

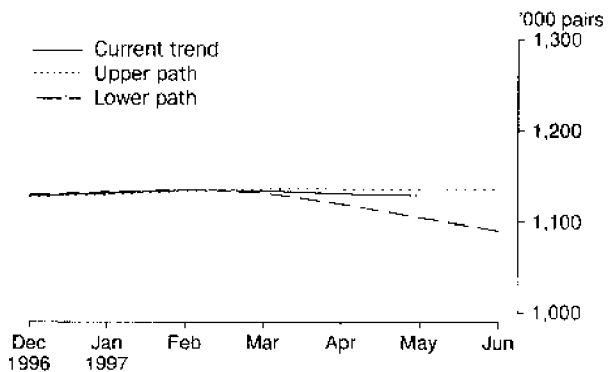
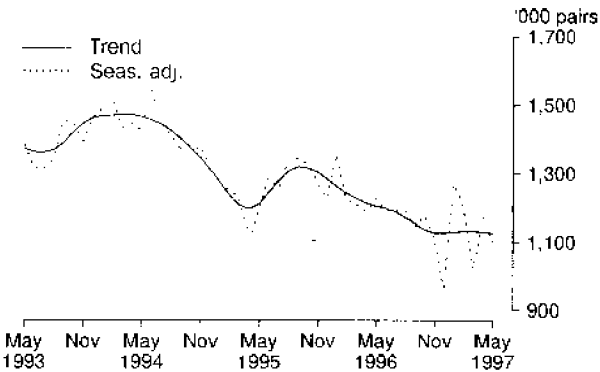
#### M17 WOOL WOVEN FABRIC *(seasonally adjusted series average movement 8%)*



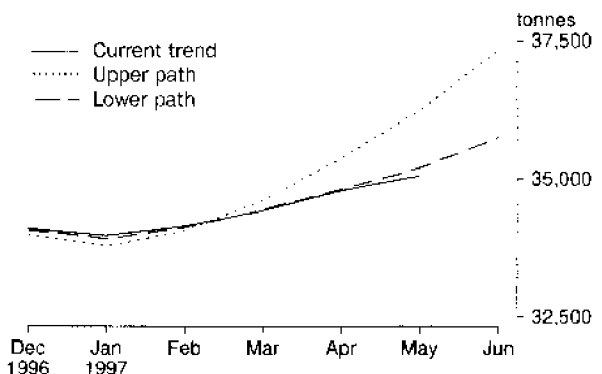
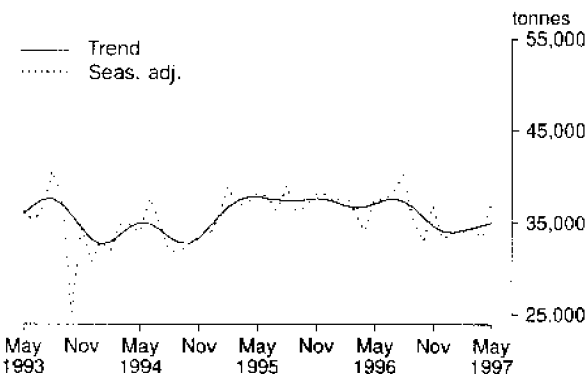
#### M18 TEXTILE FLOOR COVERINGS *(seasonally adjusted series average movement 6%)*



#### M19 FOOTWEAR *(seasonally adjusted series average movement 4%)*



#### M21 NEWSPRINT *(seasonally adjusted series average movement 5%)*



For footnotes see page 23.

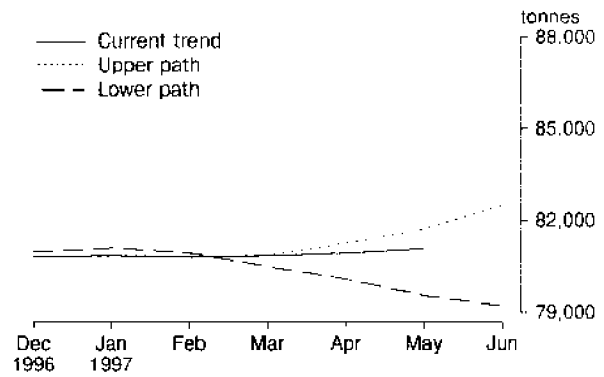
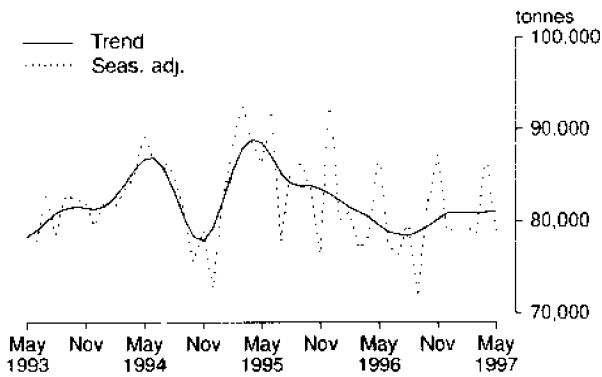
# M

## MONTHLY PRODUCTION *continued*

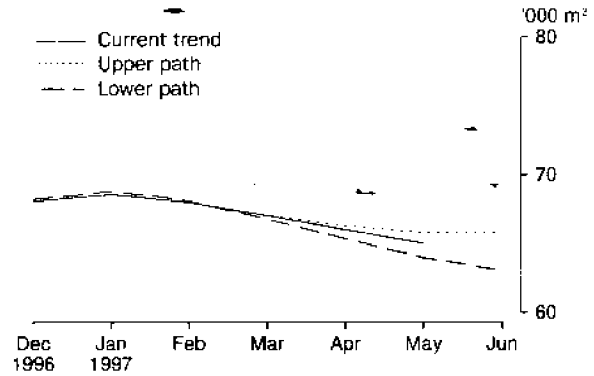
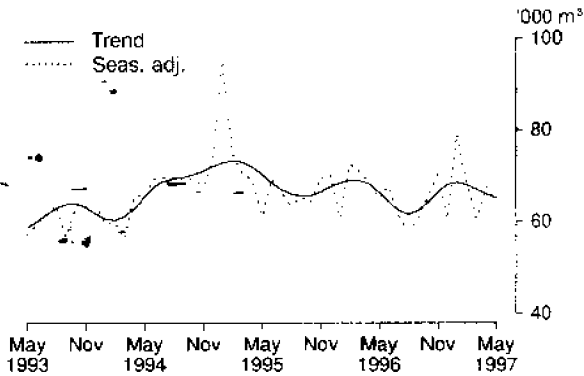
### Longer term trend(a)

### Short-term sensitivity analysis

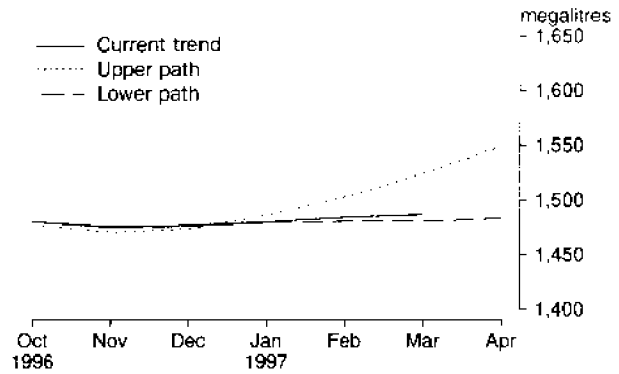
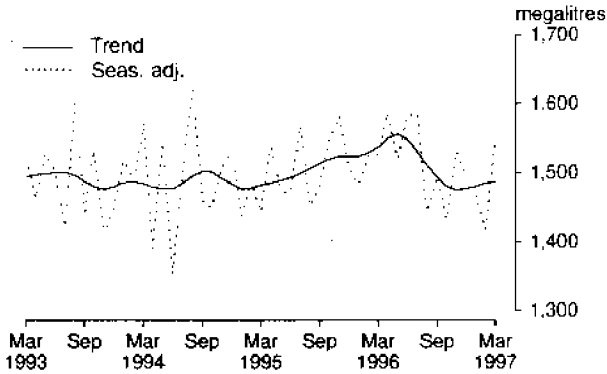
#### M22 WOOD PULP (seasonally adjusted series average movement 5%)



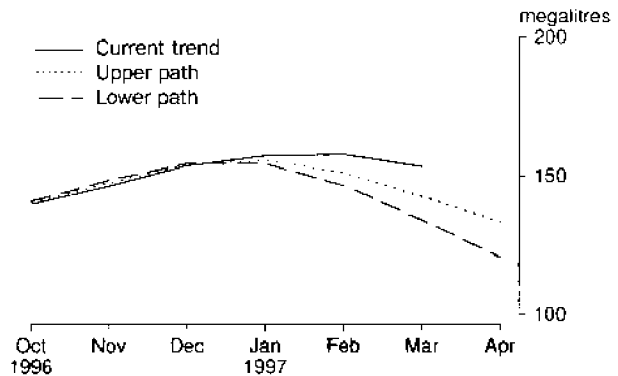
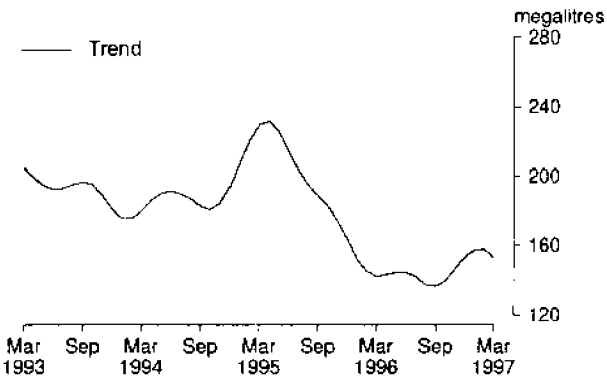
#### M23 UNLAMINATED PARTICLE BOARD (seasonally adjusted series average movement 5%)



#### M26 AUTOMOTIVE GASOLINE(b) (seasonally adjusted series average movement 5%)



#### M27 FUEL OIL(b) (seasonally adjusted series average movement 15%)

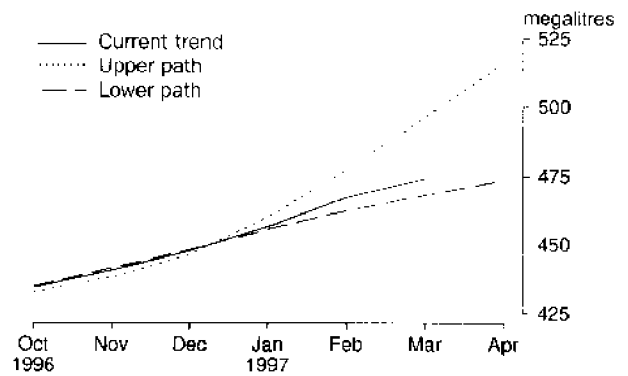
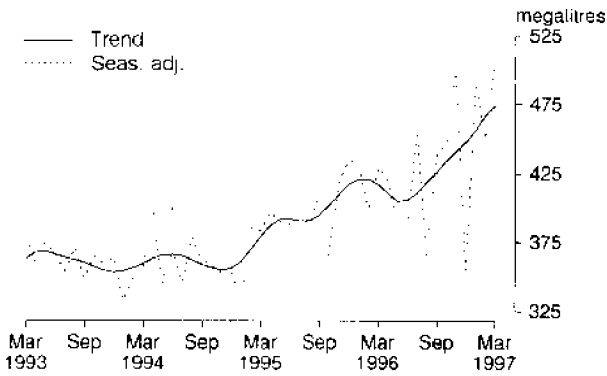


For footnotes see page 23.

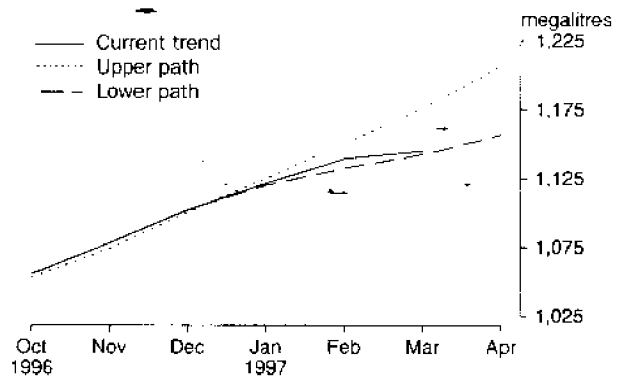
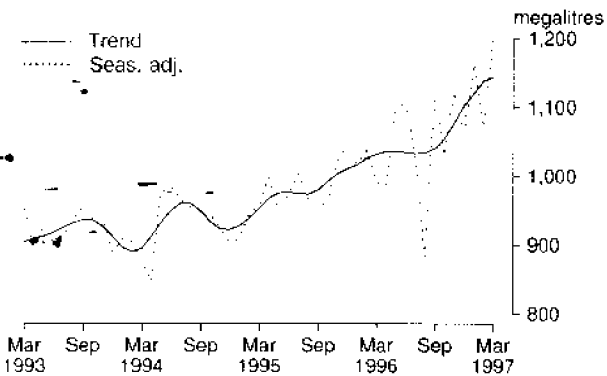
Longer term trend(a)

Short-term sensitivity analysis

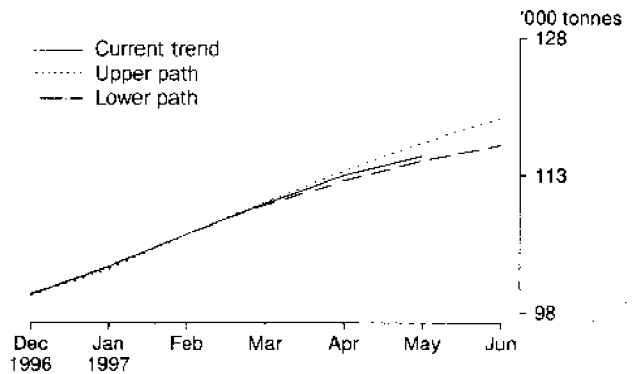
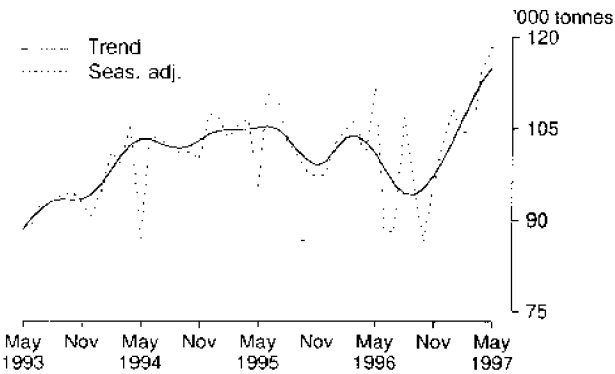
**M28 AVIATION TURBINE FUEL(b)** (seasonally adjusted series average movement 9%)



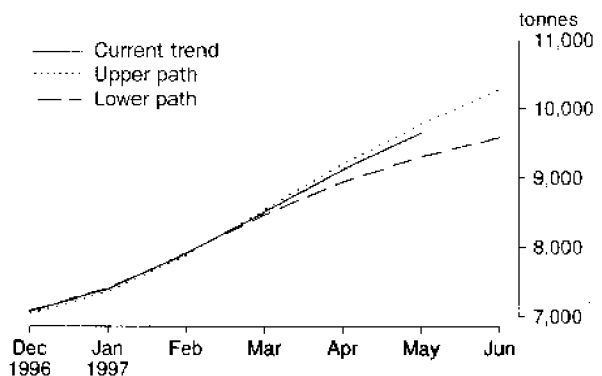
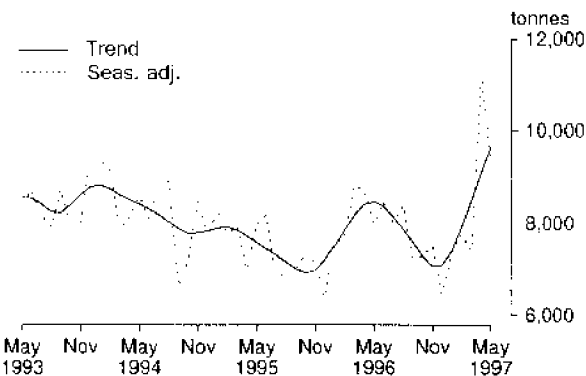
**M29 AUTOMOTIVE DIESEL OIL(b)** (seasonally adjusted series average movement 5%)



**M30 PLASTICS IN PRIMARY FORMS** (seasonally adjusted series average movement 4%)



**M31 RIGID PVC TUBES, PIPES AND HOSES(e)** (seasonally adjusted series average movement)



For footnotes see page 23.

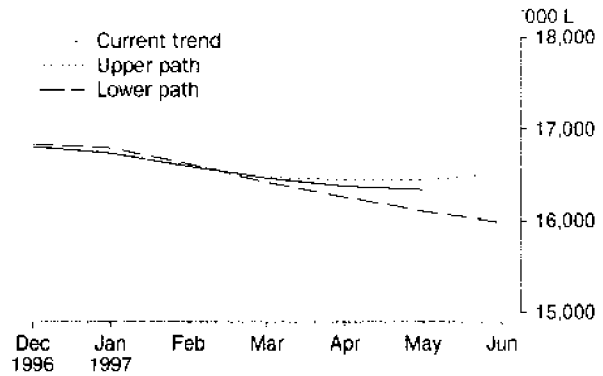
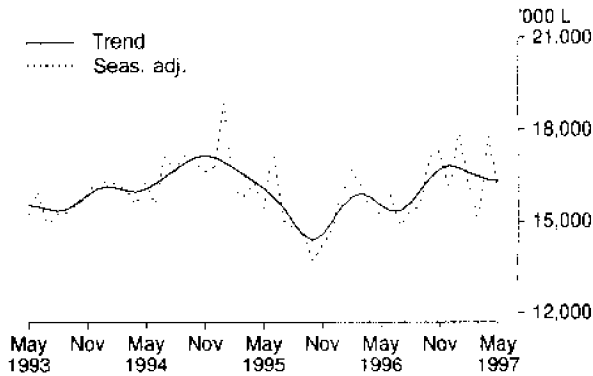
# M

## MONTHLY PRODUCTION *continued*

### Longer term trend(a)

### Short-term sensitivity analysis

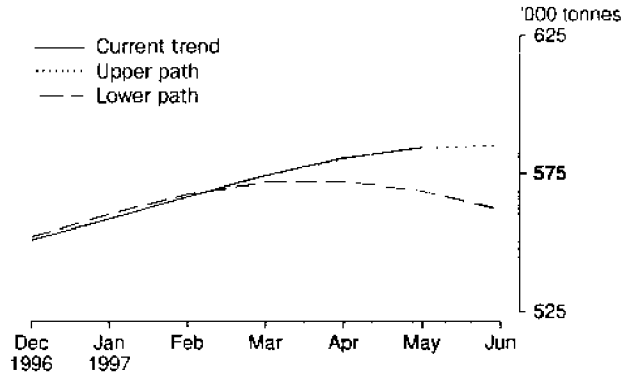
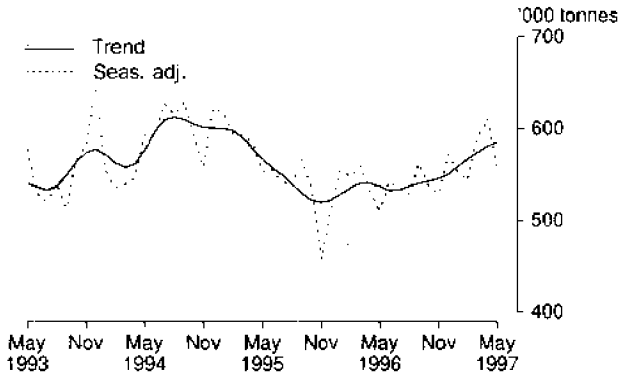
#### M33 PAINT (seasonally adjusted series average movement 4%)



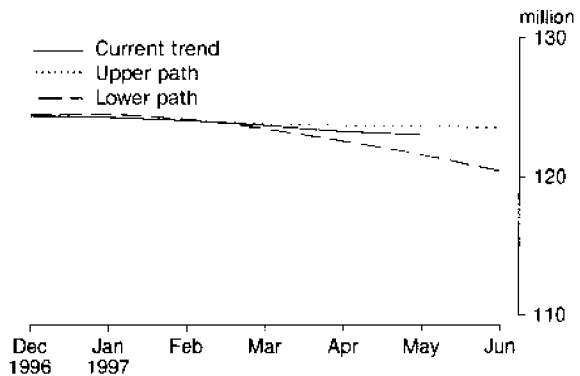
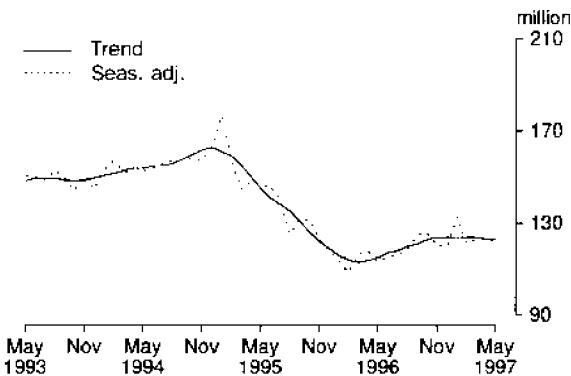
#### M34 SUPERPHOSPHATES

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%)



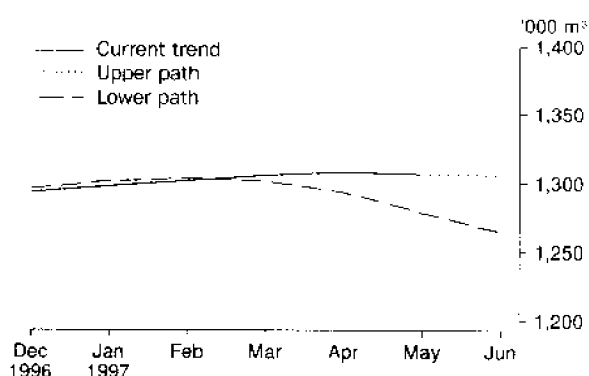
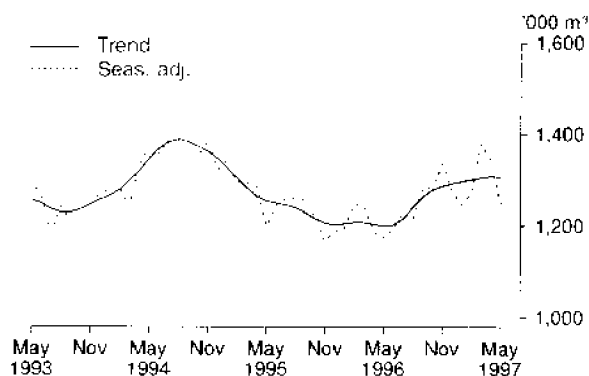
For footnotes see page 23.

# M MONTHLY PRODUCTION *continued*

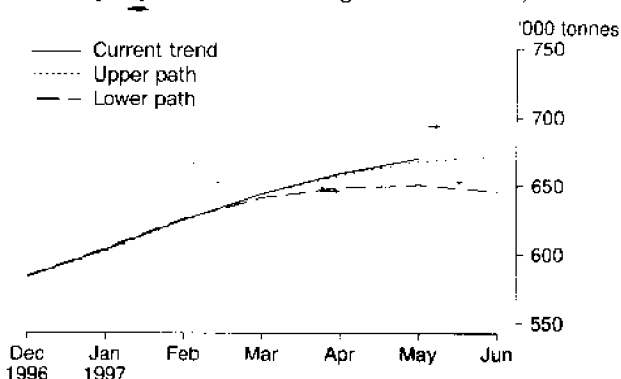
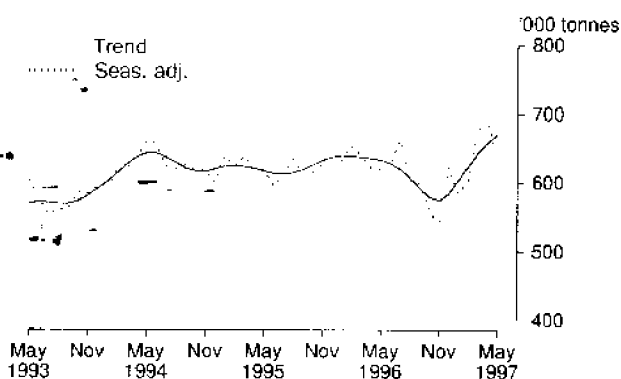
## Longer term trend(a)

## Short-term sensitivity analysis

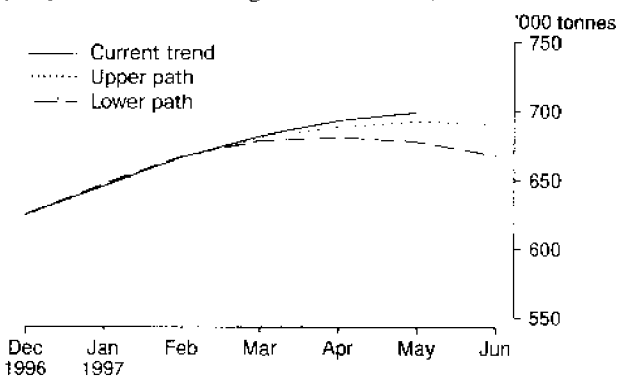
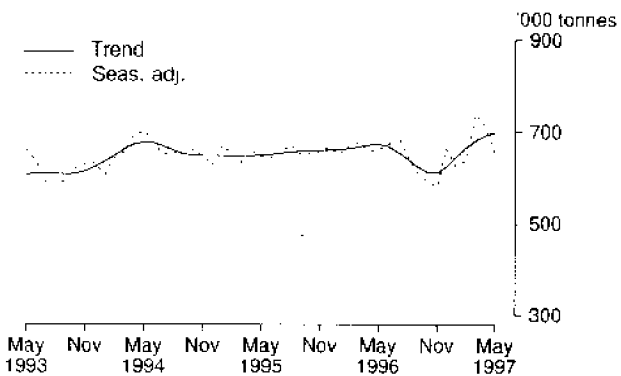
**M37 READY MIXED CONCRETE** (seasonally adjusted series average movement 4%)



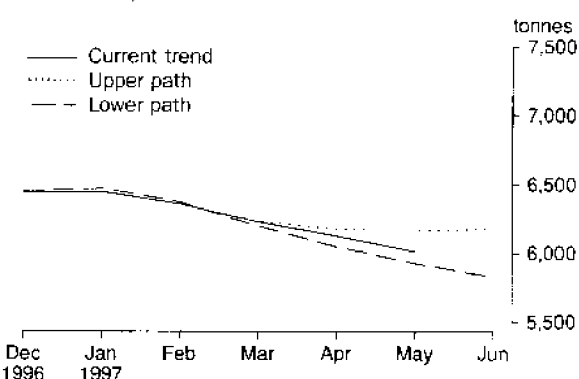
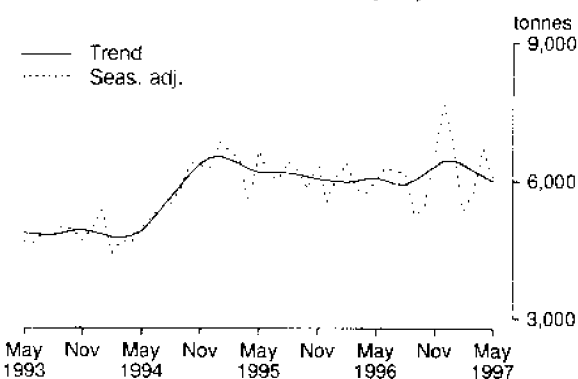
**M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(c)** (seasonally adjusted series average movement 5%)



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



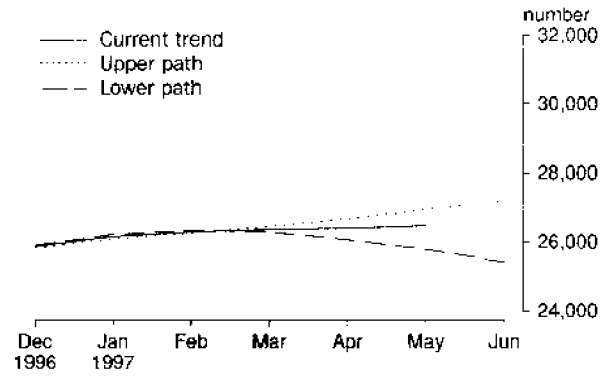
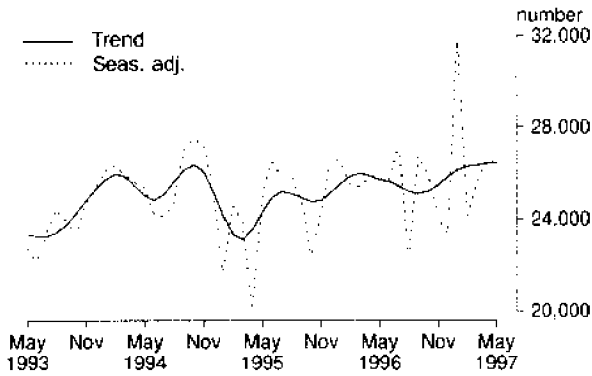
**M40 INSULATED WIRE** (seasonally adjusted series average movement 7%)



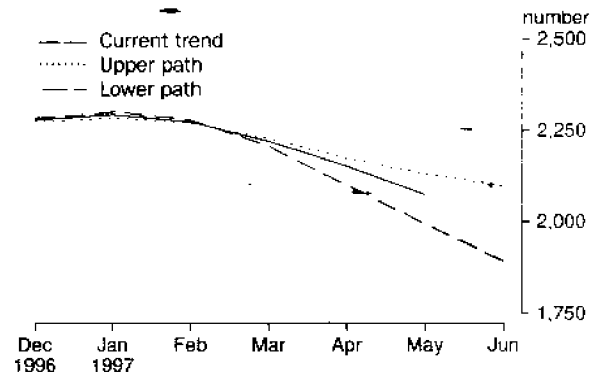
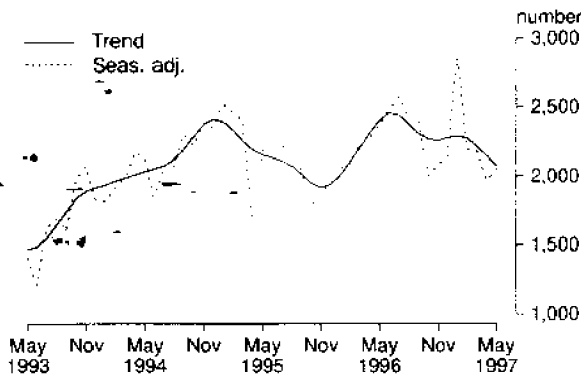
Longer term trend(a)

Short-term sensitivity analysis

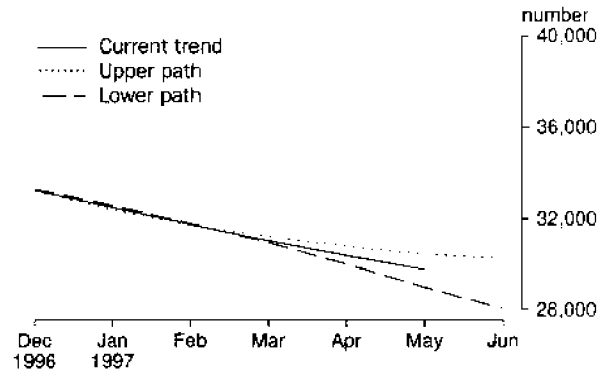
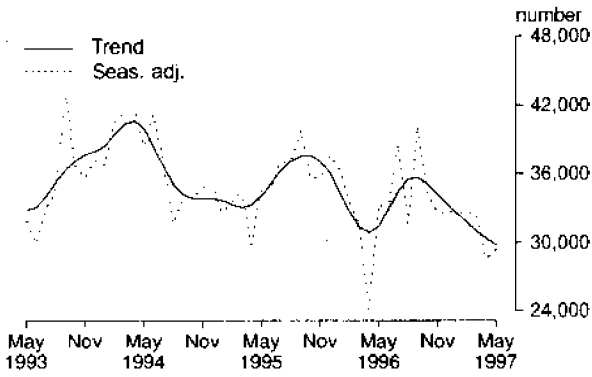
**M41 CARS AND STATION WAGONS** (seasonally adjusted series average movement 8%)



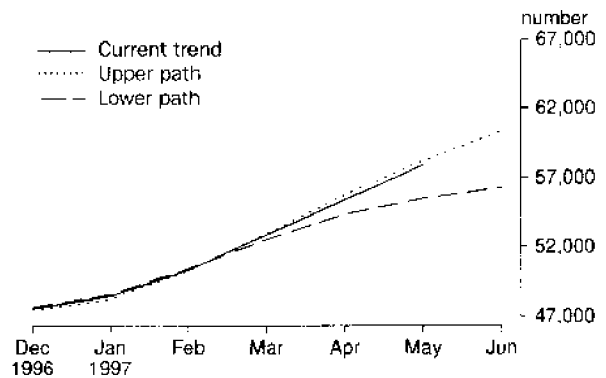
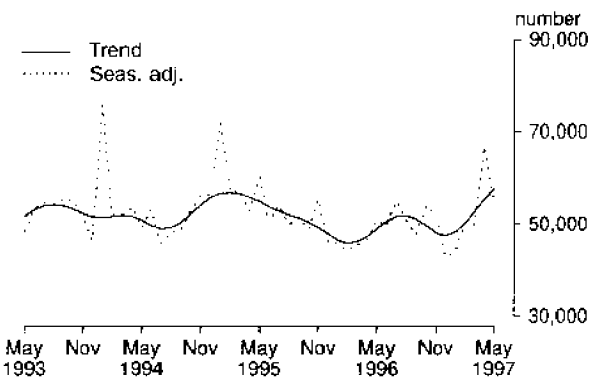
**M42 VEHICLES FOR GOODS AND MATERIALS** (seasonally adjusted series average movement 11%)



**M44 DOMESTIC REFRIGERATORS** (seasonally adjusted series average movement 8%)



**M45 WATER HEATERS** (seasonally adjusted series average movement 7%)



For footnotes see page 23.

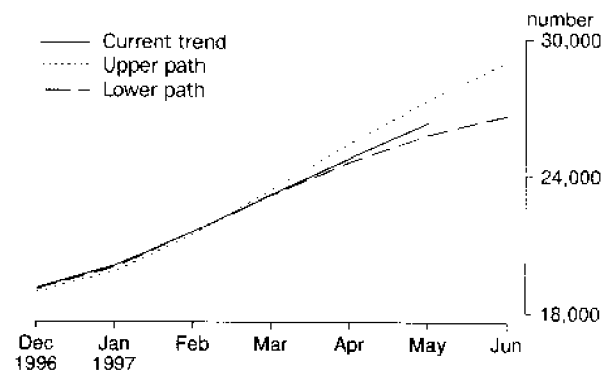
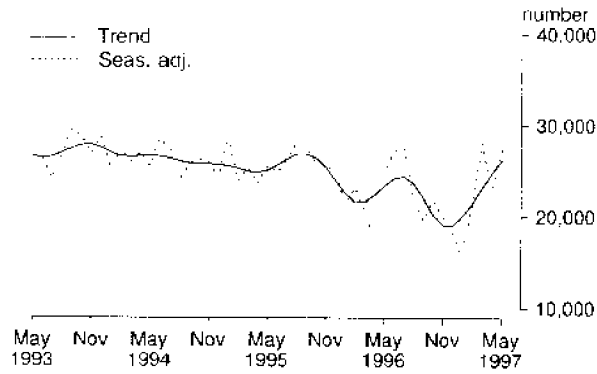
# M

## MONTHLY PRODUCTION *continued*

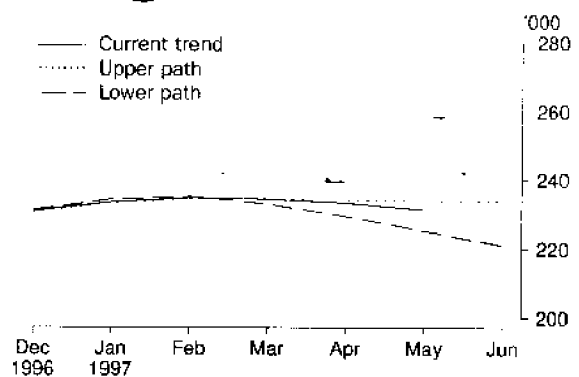
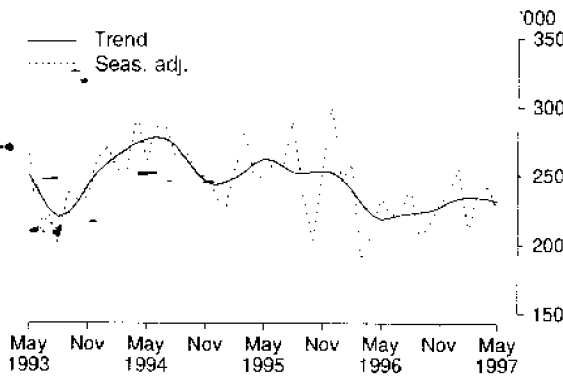
### Longer term trend(a)

### Short-term sensitivity analysis

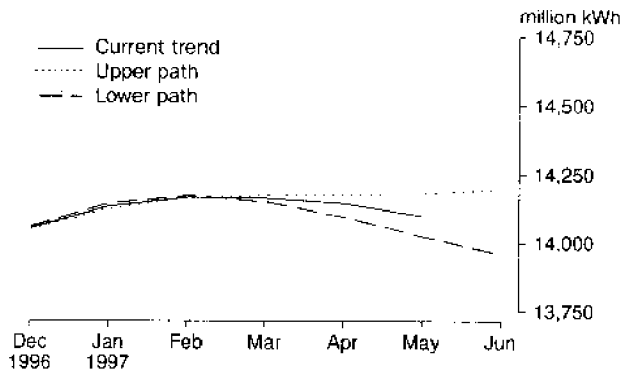
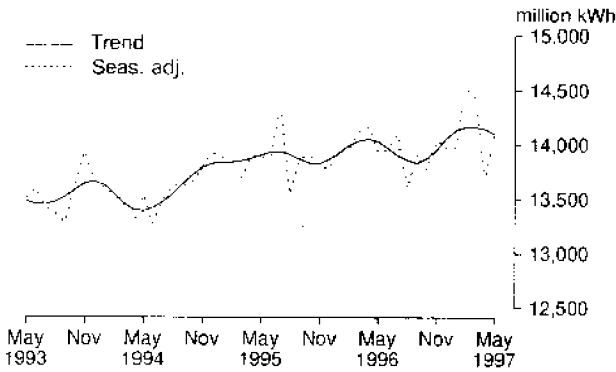
#### M46 DOMESTIC CLOTHES WASHING MACHINES *(seasonally adjusted series average movement 9%)*



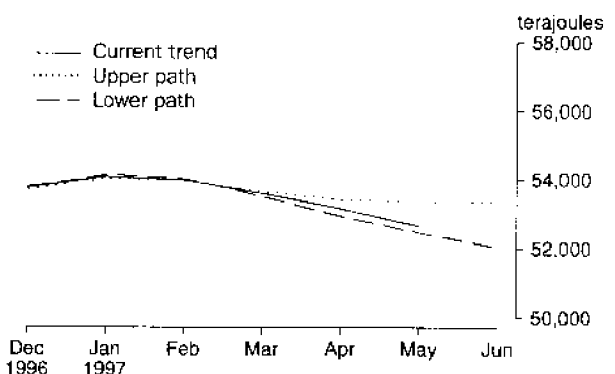
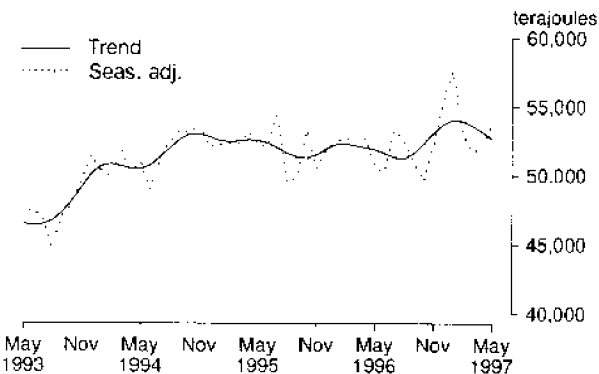
#### M47 ELECTRIC MOTORS *(seasonally adjusted series average movement 7%)*



#### M48 ELECTRICITY *(seasonally adjusted series average movement 1%)*



#### M49 GAS *(seasonally adjusted series average movement 3%)*



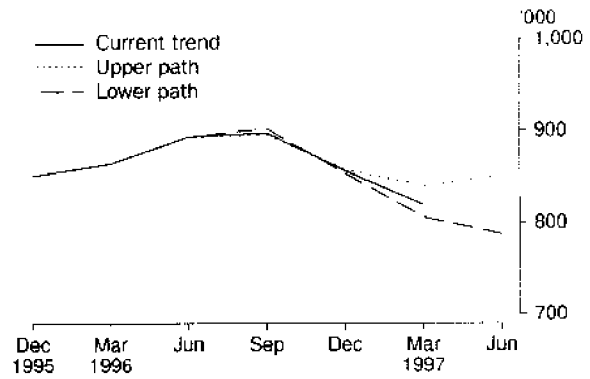
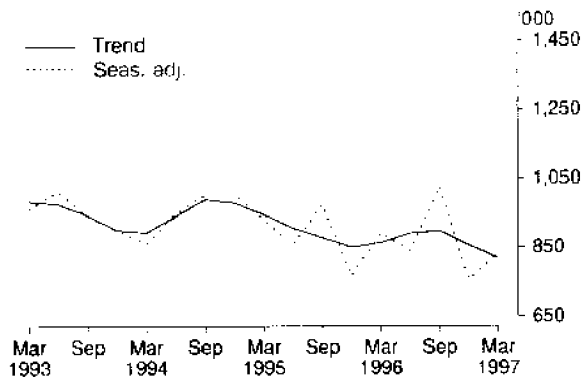
# Q

## QUARTERLY PRODUCTION

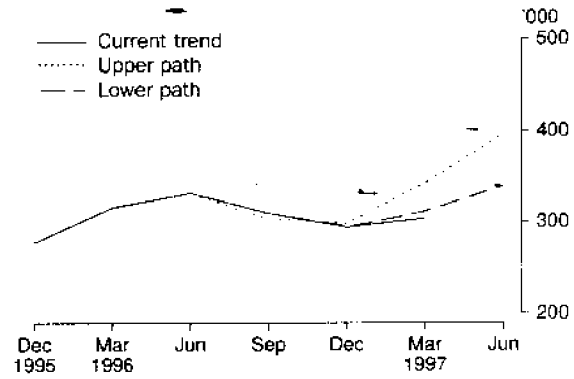
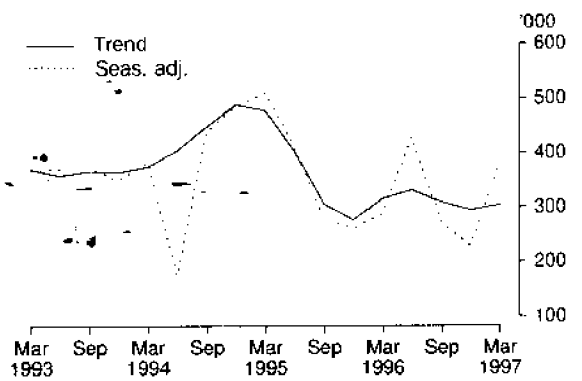
### Longer term trend(a)

### Short-term sensitivity analysis

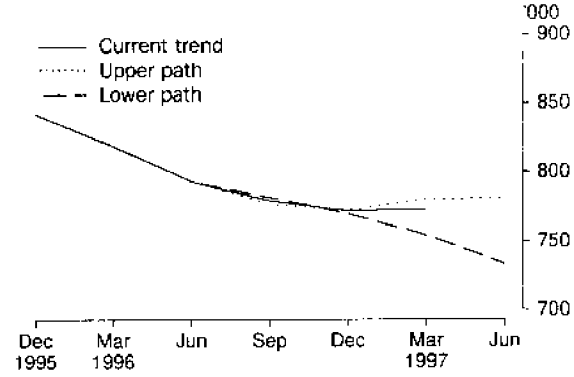
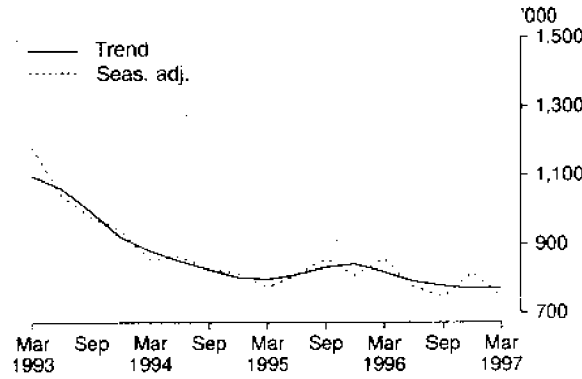
#### Q1 MEN'S AND BOYS' LONG TROUSERS (seasonally adjusted series average movement 7%)



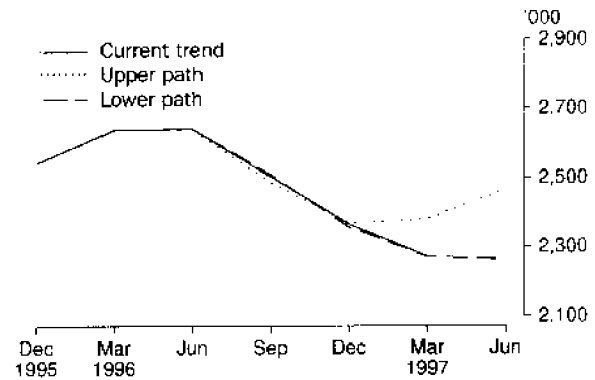
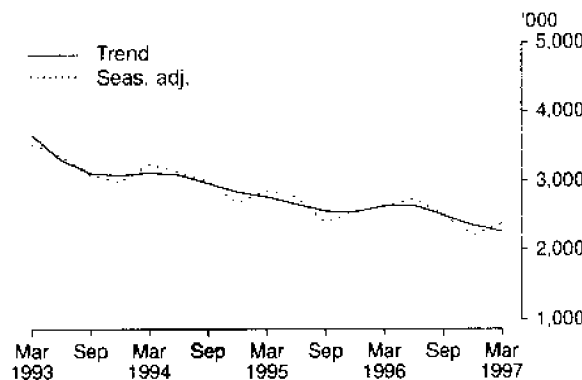
#### Q2 WOMEN'S AND GIRLS' LONG TROUSERS (seasonally adjusted series average movement 14%)



#### 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.



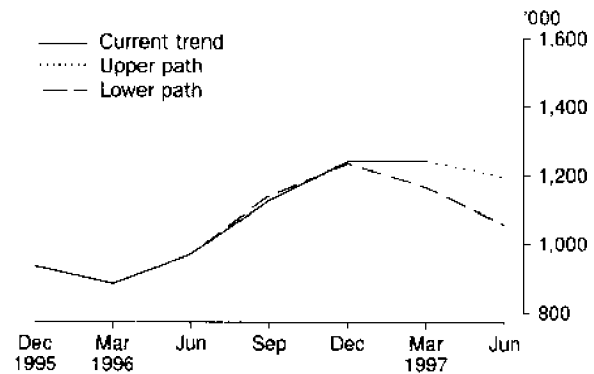
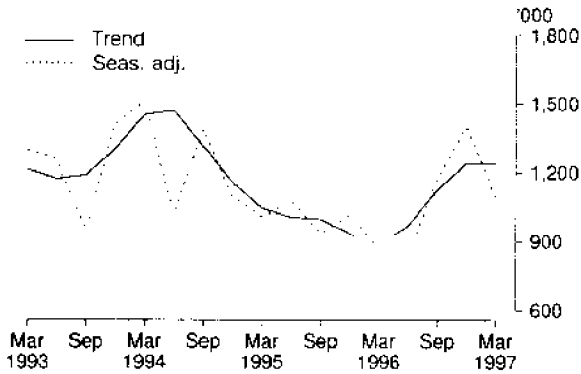
# Q

## QUARTERLY PRODUCTION *continued*

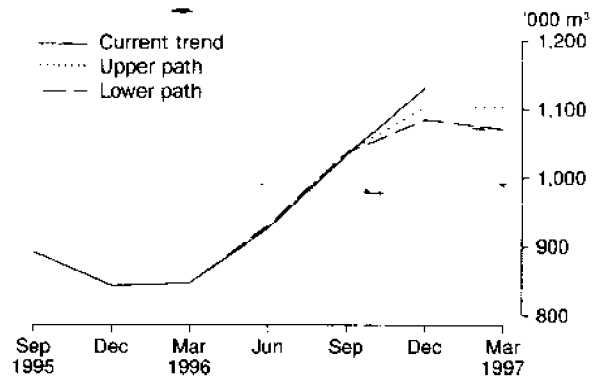
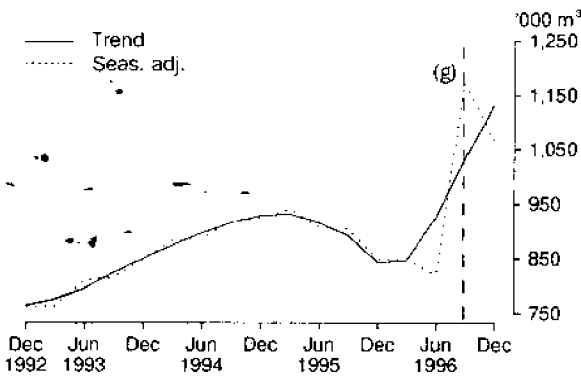
### Longer term trend(a)

### Short-term sensitivity analysis

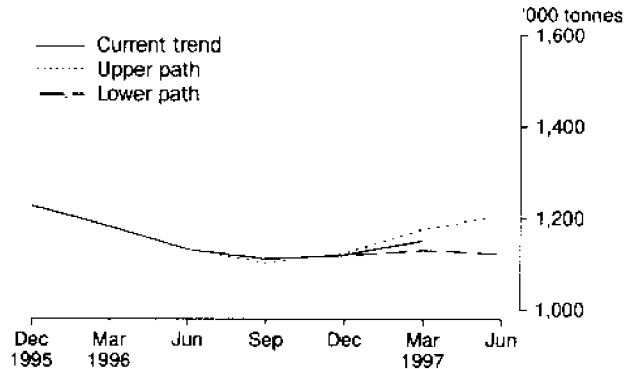
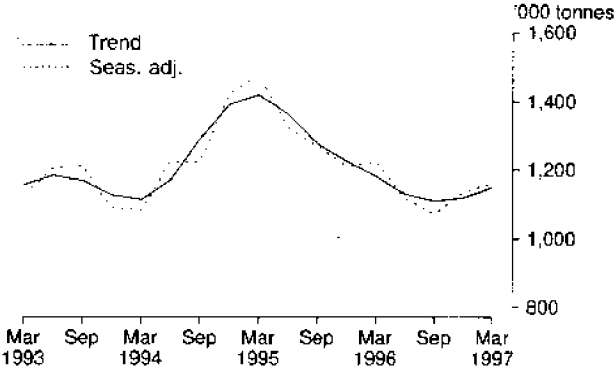
#### Q5 WOMEN'S SHIRTS AND BLOUSES(f) *(seasonally adjusted series average movement 12%)*



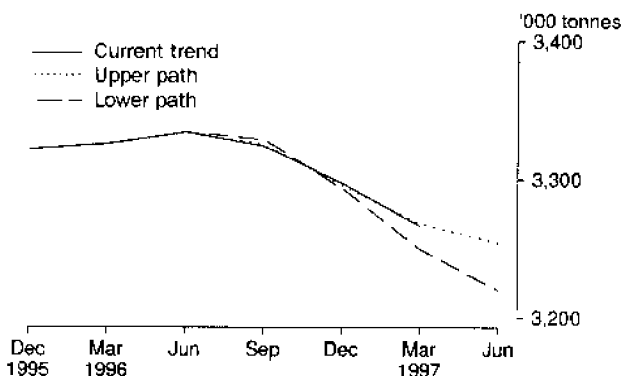
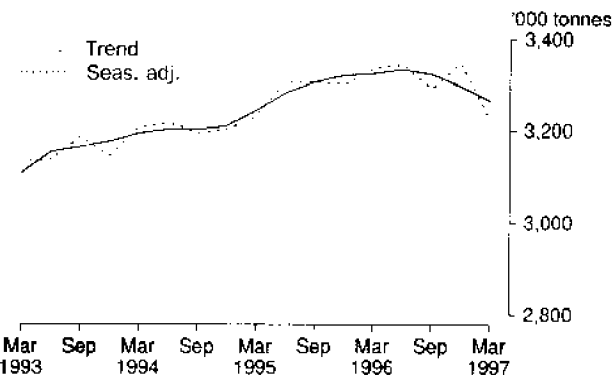
#### Q6 UNDRESSED SAWN TIMBER(b)(g) *(seasonally adjusted series average movement 3%)*



#### Q7 HARDWOOD WOODCHIPS *(seasonally adjusted series average movement 7%)*



#### Q8 ALUMINA(b) *(seasonally adjusted series average movement 1%)*



For footnotes see page 23.

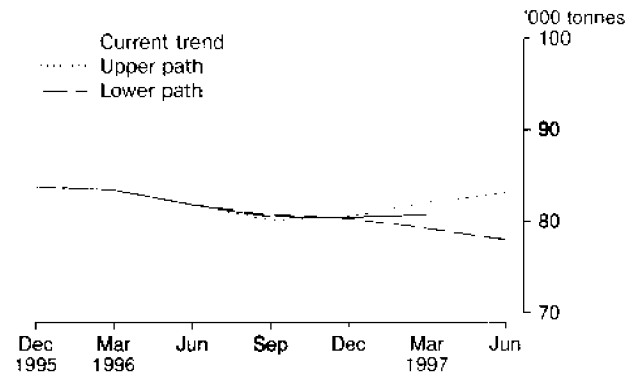
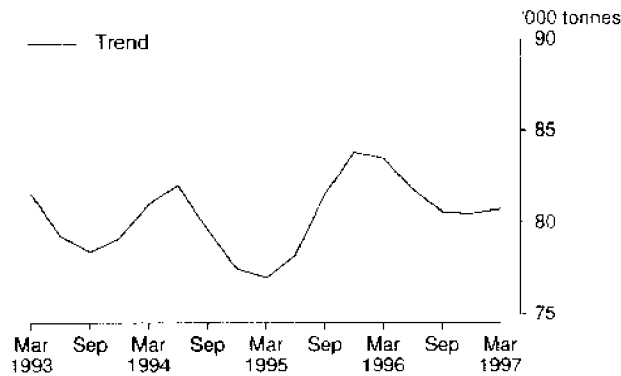
# Q

## QUARTERLY PRODUCTION *continued*

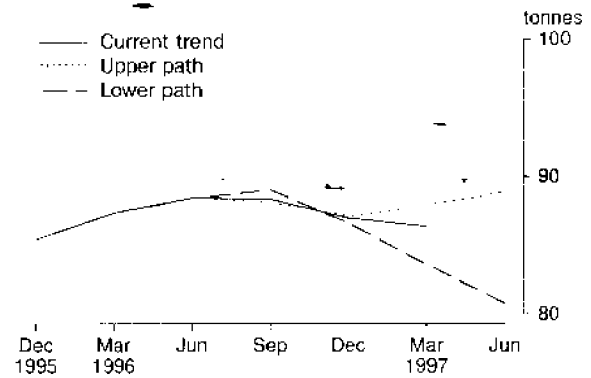
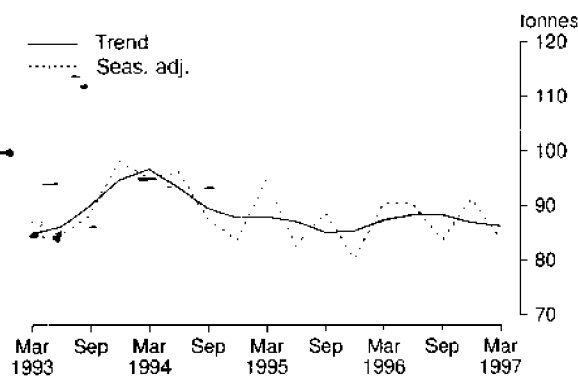
### Longer term trend(a)

### Short-term sensitivity analysis

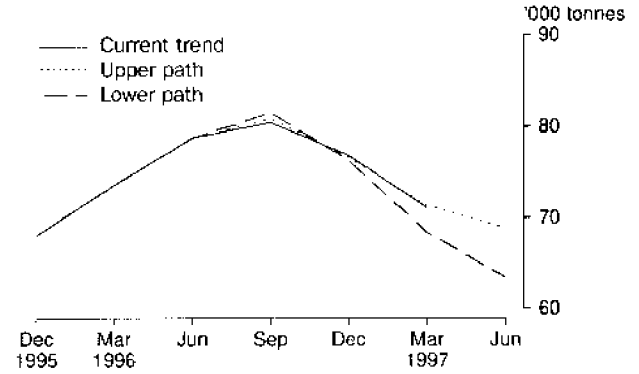
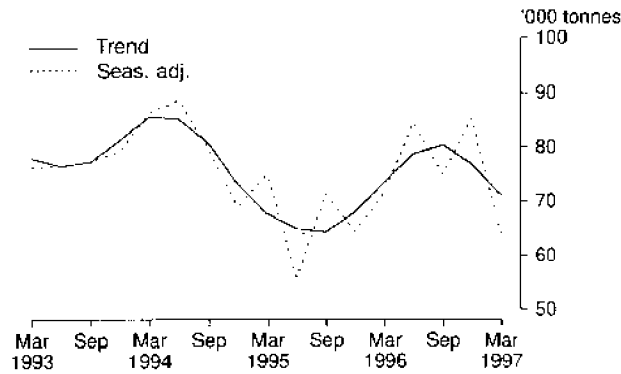
#### Q9 ZINC(b) (seasonally adjusted series average movement 6%)



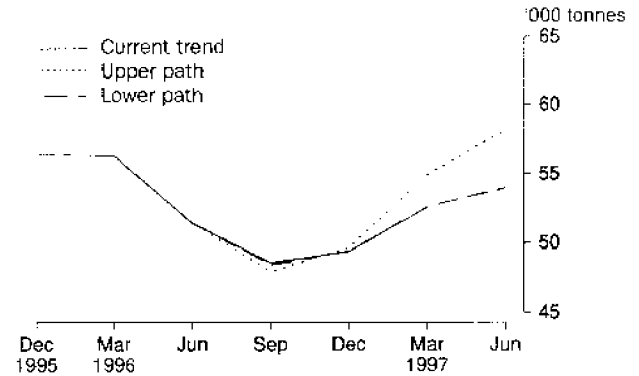
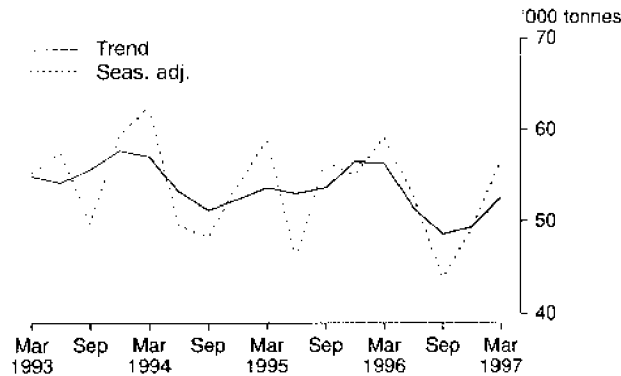
#### Q10 SILVER(b) (seasonally adjusted series average movement 9%)



#### Q11 COPPER(b) (seasonally adjusted series average movement 8%)



#### Q12 LEAD(b) (seasonally adjusted series average movement 7%)



For footnotes see page 23.

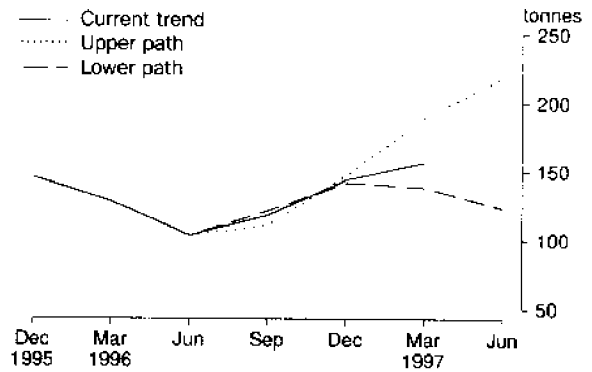
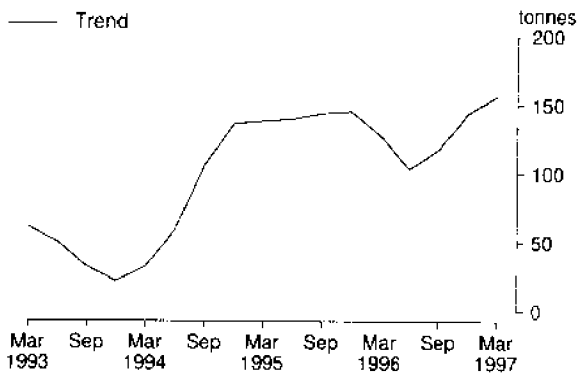
# Q

## QUARTERLY PRODUCTION *continued*

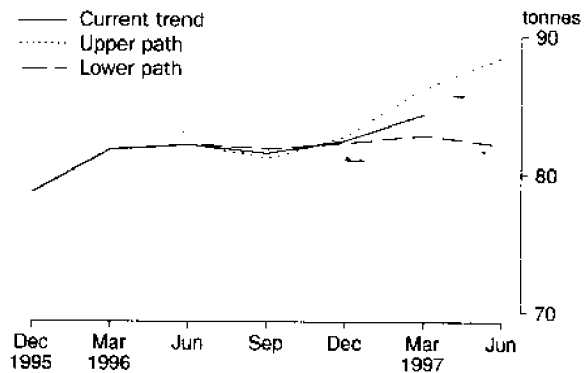
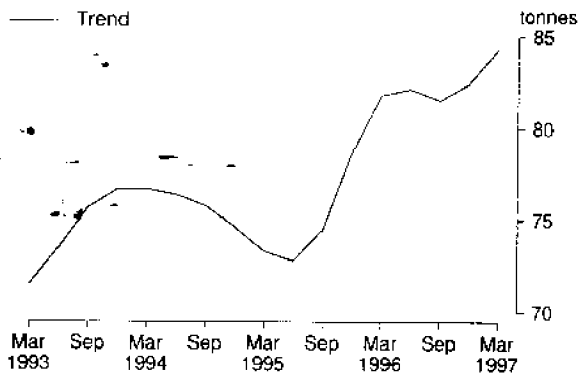
### Longer term trend(a)

### Short-term sensitivity analysis

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



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



## 1

## MONTHLY PRODUCTION

No.	Item and unit/Series(a)	1996..... 1997.....									Percentage changes between latest month shown and.....		
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	prev. month	same month prev. year	
<b>M1</b>	<b>Red meat ('000 tonnes)</b>												
	Original	205	231	226	192	207	228	220	252	n.y.a.	14.3	21.8	
	Seasonally adjusted	205	210	211	213	231	239	220	256	n.y.a.	16.7	18.6	
	Trend	206	208	212	218	225	231	237	242	n.y.a.	2.2	10.9	
<b>M2</b>	<b>Chicken meat (tonnes)</b>												
	Original	42 130	44 617	38 860	43 288	42 446	39 097	40 323	42 491	n.y.a.	5.4	7.7	
	Seasonally adjusted	42 042	42 523	41 821	40 925	41 022	41 590	39 895	41 141	n.y.a.	3.1	4.9	
	Trend	41 736	41 960	41 828	41 511	41 180	40 935	40 762	40 627	n.y.a.	-0.3	1.7	
<b>M3</b>	<b>Cheese(b) (tonnes)</b>												
	Original	26 506	31 158	30 244	29 064	25 865	22 006	21 982	n.y.a.	n.y.a.	-0.1	10.5	
	Seasonally adjusted	21 847	20 764	20 937	22 700	21 470	23 079	23 465	n.y.a.	n.y.a.	1.7	11.7	
	Trend	20 977	21 025	21 380	21 858	22 306	22 719	23 026	n.y.a.	n.y.a.	1.4	3.9	
<b>M4</b>	<b>Butter(b) (tonnes)</b>												
	Original	16 501	18 074	20 097	19 433	14 695	10 111	9 975	n.y.a.	n.y.a.	-1.3	-14.7	
	Seasonally adjusted	14 015	11 546	12 019	12 211	11 321	10 352	10 619	n.y.a.	n.y.a.	2.6	-14.9	
	Trend	13 573	12 780	12 101	11 621	11 210	10 837	10 537	n.y.a.	n.y.a.	-2.8	-18.8	
<b>M5</b>	<b>Flour of wheat or of meslin ('000 tonnes)</b>												
	Original	132	127	130	128	126	131	130	127	135	6.7	-0.2	
	Seasonally adjusted	131	124	125	142	134	136	129	136	125	-7.8	1.4	
	Trend	126	128	131	133	134	134	133	132	130	-1.3	6.7	
<b>M6</b>	<b>Prepared foods from cereals (tonnes)</b>												
	Original	8 722	8 713	9 274	6 096	6 692	8 638	9 890	8 422	9 539	13.3	6.6	
	Seasonally adjusted	8 294	8 505	8 870	6 019	7 267	8 930	9 039	9 375	9 496	1.3	14.0	
	Trend	8 300	8 144	7 921	7 816	7 925	8 272	8 711	9 128	9 507	4.2	14.8	
<b>M7</b>	<b>Biscuits(d) (tonnes)</b>												
	Original	11 984	12 424	12 052	10 924	7 499	10 529	11 372	12 378	12 555	1.4	-2.5	
	Seasonally adjusted	10 673	11 365	10 967	12 503	11 517	10 936	10 606	14 291	12 185	-14.7	1.5	
	Trend	11 479	11 406	11 365	11 369	11 394	11 425	11 477	11 569	11 704	1.2	-2.2	
<b>M8</b>	<b>Chocolate based confectionery(d) (tonnes)</b>												
	Original	9 962	10 375	10 363	8 461	6 684	9 716	8 806	15 273	9 314	76.7	-0.9	
	Seasonally adjusted	9 735	9 000	9 238	8 640	10 291	9 564	9 851	5 980	9 303	55.6	4.4	
	Trend	9 420	9 364	9 346	9 387	9 446	9 468	9 431	9 359	9 256	-1.1	3.2	
<b>M9</b>	<b>Other confectionery (tonnes)</b>												
	Original	6 822	7 028	6 694	5 414	3 586	5 701	6 164	5 006	6 436	28.6	6.3	
	Seasonally adjusted	6 148	6 267	5 590	5 776	6 124	6 113	6 817	5 669	6 533	15.2	9.0	
	Trend	5 975	5 952	5 943	5 984	6 052	6 136	6 222	6 293	6 372	1.3	6.1	
<b>M10</b>	<b>Malt (tonnes)</b>												
	Original	50 375	50 817	48 372	46 904	46 496	40 764	41 326	46 184	48 893	5.9	1.8	
	Seasonally adjusted	52 030	52 350	44 076	47 475	48 766	39 103	41 584	48 975	44 792	-8.5	2.1	
	Trend	51 451	50 015	48 094	46 305	45 097	44 384	44 159	44 235	44 763	1.2	-9.6	
<b>M11</b>	<b>Beer (megalitres)</b>												
	Original	133	177	175	156	141	140	150	144	136	-5.5	-6.9	
	Seasonally adjusted	140	153	145	128	146	154	151	153	144	5.9	-3.5	
	Trend	143	142	143	144	146	147	149	150	151	0.8	4.5	
<b>M12</b>	<b>Tobacco and cigarettes (tonnes)</b>												
	Original	1 796	1 838	2 183	1 553	969	2 028	1 805	1 606	2 061	28.4	12.4	
	Seasonally adjusted	1 770	1 980	2 130	1 671	1 638	1 899	1 912	1 752	1 868	6.6	18.9	
	Trend	1 899	1 905	1 885	1 850	1 823	1 811	1 812	1 817	1 826	0.5	3.6	
<b>M13</b>	<b>Man-made fibre woven fabric ('000 m<sup>2</sup>)</b>												
	Original	12 598	15 479	13 502	9 912	6 933	11 988	11 492	11 129	12 724	14.3	-9.7	
	Seasonally adjusted	12 682	14 760	12 137	12 041	10 051	11 467	11 450	11 811	11 641	-1.4	-8.7	
	Trend	12 716	12 729	12 460	12 019	11 575	11 333	11 291	11 333	11 546	1.9	2.6	
<b>M14</b>	<b>Cotton woven fabric ('000 m<sup>2</sup>)</b>												
	Original	5 918	5 648	5 510	4 083	2 119	4 595	4 700	5 001	5 229	4.6	-13.3	
	Seasonally adjusted	5 371	5 415	4 870	4 915	4 628	4 566	4 502	5 384	4 457	-17.2	-14.4	
	Trend	5 478	5 257	5 024	4 839	4 754	4 721	4 710	4 716	4 746	0.6	-7.9	
<b>M15</b>	<b>Cotton yarn (tonnes)</b>												
	Original	3 848	3 779	3 220	2 870	2 124	3 257	3 409	3 225	3 344	3.7	1.9	
	Seasonally adjusted	3 848	3 606	2 949	3 605	3 288	3 299	3 457	3 354	3 249	3.1	5.8	
	Trend	3 415	3 434	3 419	3 389	3 362	3 347	3 343	3 341	3 350	0.3	9.4	

No.	Item and unit/Series(a)	1996..... 1997.....									Percentage changes between latest month shown and.....	
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	prev. month	same month prev. year	
<b>M16</b>	<b>Wool yarn (tonnes)</b>											
	Original	1 569	1 847	1 613	1 344	1 032	1 554	1 490	1 538	1 545	0.5	-7.7
	Seasonally adjusted	1 464	1 524	1 590	1 631	1 467	1 552	1 726	1 533	1 493	-2.6	-3.5
	Trend	1 483	1 511	1 542	1 567	1 579	1 581	1 576	1 567	1 554	-0.9	-1.6
<b>M17</b>	<b>Wool woven fabric ('000 m<sup>2</sup>)</b>											
	Original	566	581	723	450	470	555	459	470	619	31.7	17.2
	Seasonally adjusted	633	495	692	541	717	487	461	403	585	45.2	24.9
	Trend	550	581	598	597	575	542	513	493	473	-4.1	-3.9
<b>M18</b>	<b>Textile floor coverings ('000 m<sup>2</sup>)</b>											
	Original	3 791	4 434	4 079	3 429	2 449	3 762	3 718	3 979	3 978	-	9.8
	Seasonally adjusted	3 650	3 841	3 609	3 943	3 771	3 653	3 927	3 868	3 834	-0.9	11.0
	Trend	3 621	3 688	3 742	3 777	3 799	3 811	3 825	3 839	3 860	0.5	7.8
<b>M19</b>	<b>Footwear ('000 pairs)</b>											
	Original	1 248	1 355	1 161	828	713	1 246	1 130	1 179	1 187	0.7	-11.8
	Seasonally adjusted	1 146	1 180	1 110	969	1 275	1 205	1 021	1 174	1 114	-5.1	-9.4
	Trend	1 156	1 139	1 130	1 128	1 132	1 135	1 136	1 134	1 134	-	-5.9
<b>M21</b>	<b>Newsprint (tonnes)</b>											
	Original	33 716	31 685	36 428	33 424	34 772	34 786	34 630	33 907	38 736	14.2	-3.6
	Seasonally adjusted	35 018	32 976	36 886	33 245	33 867	34 100	34 439	33 317	37 326	12.0	-0.7
	Trend	36 580	35 593	34 653	34 094	33 967	34 149	34 419	34 778	35 056	0.8	-5.3
<b>M22</b>	<b>Wood pulp (tonnes)</b>											
	Original	71 242	75 903	92 247	75 439	81 657	76 853	80 922	82 398	84 934	3.1	-6.5
	Seasonally adjusted	71 744	81 984	87 169	78 890	79 265	79 306	78 603	87 367	78 834	-9.8	-10.3
	Trend	78 864	79 503	80 283	80 813	80 847	80 802	80 844	80 929	81 084	0.2	1.9
<b>M23</b>	<b>Unlaminated particle board ('000 m<sup>2</sup>)</b>											
	Original	65	78	74	50	47	65	63	71	69	-3.0	-5.4
	Seasonally adjusted	61	65	70	60	79	68	61	68	64	-4.8	-0.9
	Trend	62	64	66	68	69	68	67	66	65	-1.5	-2.0
<b>M25</b>	<b>Paperboard containers ('000 tonnes)</b>											
	Original	95 312	109 883	103 329	86 920	87 546	92 407	88 242	95 081	96 386	1.4	9.2
	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.
<b>M26</b>	<b>Automotive gasoline(b) (megalitres)</b>											
	Original	1 464	1 416	1 439	1 523	1 543	1 361	1 551	n.y.a.	n.y.a.	14.0	1.4
	Seasonally adjusted	1 495	1 432	1 530	1 496	1 468	1 417	1 547	n.y.a.	n.y.a.	9.2	1.3
	Trend	1 493	1 481	1 476	1 478	1 481	1 485	1 487	n.y.a.	n.y.a.	0.1	-3.3
<b>M27</b>	<b>Fuel oil(b) (megalitres)</b>											
	Original	147	119	164	139	173	190	93	n.y.a.	n.y.a.	-51.2	-26.4
	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	137	140	147	154	157	158	153	n.y.a.	n.y.a.	-2.9	7.7
<b>M28</b>	<b>Aviation turbine fuel(b) (megalitres)</b>											
	Original	447	502	481	401	505	416	491	n.y.a.	n.y.a.	17.9	18.5
	Seasonally adjusted	440	446	499	355	490	450	507	n.y.a.	n.y.a.	12.5	18.0
	Trend	427	434	441	448	457	467	474	n.y.a.	n.y.a.	1.4	13.7
<b>M29</b>	<b>Automotive diesel oil(b) (megalitres)</b>											
	Original	1 103	1 032	1 111	1 135	1 198	1 013	1 152	n.y.a.	n.y.a.	13.8	20.9
	Seasonally adjusted	1 127	1 032	1 123	1 063	1 164	1 072	1 199	n.y.a.	n.y.a.	11.8	21.0
	Trend	1 041	1 055	1 078	1 102	1 122	1 139	1 145	n.y.a.	n.y.a.	0.5	10.9
<b>M30</b>	<b>Plastics in primary forms ('000 tonnes)</b>											
	Original	100	96	92	94	98	100	110	116	113	-2.5	0.2
	Seasonally adjusted	96	86	96	103	108	104	105	115	118	3.0	5.3
	Trend	94	95	97	100	103	107	110	113	115	1.9	14.0
<b>M31</b>	<b>Rigid PVC tubes, pipes and hoses(e) (tonnes)</b>											
	Original	6 847	7 186	7 653	5 993	4 407	8 219	7 853	9 433	11 197	18.7	16.5
	Seasonally adjusted	7 233	7 281	7 496	6 445	7 316	7 765	7 404	11 196	9 360	-16.4	17.1
	Trend	7 585	7 281	7 060	7 081	7 393	7 913	8 516	9 114	9 656	6.0	14.1
<b>M32</b>	<b>Polyethylene bottles up to two litres (million)</b>											
	Original	158	161	189	198	163	171	180	164	161	-1.9	6.7
	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.

No.	Item and unit/Series(a)	1996..... 1997.....									Percentage changes between latest month shown and.....		
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	prev. month	same month prev. year	
<b>M33</b>	<b>Paint ('000 litres)</b>												
	Original	15 649	18 331	19 014	15 522	15 667	16 021	15 416	16 280	16 461		1.1	2.1
	Seasonally adjusted	15 525	17 103	17 303	16 027	17 879	16 274	14 995	17 769	16 064		-9.6	5.6
	Trend	16 017	16 418	16 700	16 809	16 743	16 595	16 473	16 380	16 341		-0.2	5.4
<b>M34</b>	<b>Superphosphates ('000 tonnes)</b>												
	Original	103	187	173	n.p.	n.p.	151	140	144	133		-7.6	-23.9
	Seasonally adjusted	193	178	136	n.p.	n.p.	117	100	122	120		-1.6	-27.2
	Trend	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.		n.p.	n.p.
<b>M35</b>	<b>Portland cement ('000 tonnes)</b>												
	Original	561	566	586	r540	417	504	590	579	598		3.3	10.0
	Seasonally adjusted	562	537	529	r572	552	543	591	611	558		8.6	9.1
	Trend	541	543	546	551	559	567	574	581	585		0.7	8.9
<b>M36</b>	<b>Clay bricks (million)</b>												
	Original	126	137	122	110	91	116	123	129	131		1.6	4.9
	Seasonally adjusted	125	126	120	120	133	121	123	123	122		-1.2	7.5
	Trend	121	123	124	124	124	124	124	123	123		-0.2	7.0
<b>M37</b>	<b>Ready mixed concrete ('000 m<sup>3</sup>)</b>												
	Original	1 272	1 438	1 404	1 103	1 002	1 203	r1 286	1 380	1 367		-0.9	4.6
	Seasonally adjusted	1 280	1 286	1 335	1 278	1 246	1 273	r1 380	1 341	1 249		-6.8	6.5
	Trend	1 264	1 278	1 288	1 293	1 298	1 302	1 306	1 308	1 307		-0.1	9.0
<b>M38</b>	<b>Basic iron, spiegeleisen and sponge iron(c) ('000 tonnes)</b>												
	Original	611	578	544	612	580	548	677	670	641		-4.3	3.4
	Seasonally adjusted	598	561	534	623	585	603	680	684	639		-6.7	3.2
	Trend	592	578	574	584	603	625	644	659	671		1.7	5.9
<b>M39</b>	<b>Blooms and slabs of iron or steel(c) ('000 tonnes)</b>												
	Original	633	626	590	661	631	590	728	696	648		-6.9	-1.1
	Seasonally adjusted	611	593	581	665	625	638	739	713	655		-8.1	-1.3
	Trend	624	612	612	625	646	667	682	693	699		0.9	3.8
<b>M40</b>	<b>Insulated wire (tonnes)</b>												
	Original	5 801	6 143	7 160	6 252	4 025	5 597	6 484	6 357	6 770		6.5	1.0
	Seasonally adjusted	5 264	5 490	6 593	7 666	6 767	5 366	5 783	6 707	6 078		-9.4	0.7
	Trend	6 036	6 181	6 335	6 441	6 448	6 357	6 228	6 126	6 012		-1.9	-1.0
<b>M41</b>	<b>Cars and station wagons (no.)</b>												
	Original	28 863	29 916	26 149	19 124	15 828	23 717	24 621	25 024	30 310		21.1	0.1
	Seasonally adjusted	26 777	25 848	24 109	23 351	31 783	24 082	25 698	26 621	26 395		-0.8	2.5
	Trend	25 149	25 257	25 533	25 874	26 164	26 300	26 371	26 414	26 477		0.2	2.8
<b>M42</b>	<b>Vehicles for goods and materials (no.)</b>												
	Original	2 465	2 397	2 227	1 677	1 432	2 122	2 175	2 095	2 336		11.5	18.4
	Seasonally adjusted	2 432	2 002	2 090	2 145	2 859	2 198	2 185	1 968	2 054		4.4	13.6
	Trend	2 315	2 271	2 264	2 280	2 293	2 274	2 220	2 153	2 074		3.7	-13.9
<b>M43</b>	<b>Telephones ('000)</b>												
	Original	120	115	123	84	n.p.	n.p.	n.p.	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.
<b>M44</b>	<b>Domestic refrigerators (no.)</b>												
	Original	37 143	40 414	35 942	31 257	35 171	33 657	32 555	26 895	30 375		12.9	-16.3
	Seasonally adjusted	40 168	34 102	32 567	32 668	32 643	32 661	32 341	28 586	29 466		3.1	-11.7
	Trend	35 692	35 072	34 147	33 302	32 524	31 776	31 074	30 438	29 806		-2.1	-5.3
<b>M45</b>	<b>Water heaters (no.)</b>												
	Original	50 761	61 774	56 240	39 683	20 348	49 161	53 757	55 058	61 686		12.0	4.4
	Seasonally adjusted	47 641	54 153	51 776	42 799	43 914	50 406	49 888	66 849	54 213		-18.9	6.3
	Trend	51 201	49 592	48 054	47 527	48 375	50 324	52 855	55 397	57 928		4.6	18.1
<b>M46</b>	<b>Domestic clothes washing machines (no.)</b>												
	Original	21 682	24 860	22 056	15 492	8 093	20 726	24 505	22 959	27 648		20.4	6.6
	Seasonally adjusted	19 629	21 854	19 924	18 235	15 856	21 340	28 094	22 827	27 440		20.2	9.4
	Trend	22 027	20 209	19 020	19 042	20 039	21 514	23 175	24 781	26 326		6.2	12.3
<b>M47</b>	<b>Electric motors ('000)</b>												
	Original	214	248	249	201	168	219	225	238	244		2.6	-8.5
	Seasonally adjusted	203	214	231	236	256	208	240	241	225		-6.9	-3.9
	Trend	223	224	227	231	233	235	234	233	232		-0.7	6.1

For footnotes see page 23.

# 1

## MONTHLY PRODUCTION *continued*

No.	Item and unit/Series(a)	1996					1997					Percentage changes between latest month shown and.....	
		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	prev. month	same month prev. year	
<b>M48</b>	<b>Electricity</b> (million kWh)												
	Original	13 730	13 733	13 460	13 569	13 811	13 421	13 734	13 484	14 479	7.4	0.5	
	Seasonally adjusted	13 911	13 770	14 046	13 969	13 976	14 519	14 426	13 677	14 122	3.3	1.4	
	Trend	13 831	13 871	13 956	14 054	14 133	14 166	14 165	14 144	14 101	-0.3	0.5	
<b>M49</b>	<b>Gas</b> (terajoules)												
	Original	55 103	50 582	48 591	47 218	46 011	42 818	46 489	48 919	57 507	17.6	5.4	
	Seasonally adjusted	50 874	49 609	52 435	55 426	57 643	53 032	51 683	52 139	53 732	3.1	6.4	
	Trend	51 627	52 334	53 126	53 740	54 060	53 975	53 587	53 166	52 653	-1.0	1.6	

(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 have been adjusted, to allow for recent abnormal production levels, which are expected to return to normal from May 1997.

(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.

# 2

## QUARTERLY PRODUCTION

No.	Item and unit/Series(a)	Percentage changes between latest quarter shown and....												
		1995.....				1996.....				1997.....				
		Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	same prev. quarter
<b>Q1</b>	<b>Men's and boys' long trousers ('000)</b>													
	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
<b>Q2</b>	<b>Women's and girls' long trousers ('000)</b>													
	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
<b>Q3</b>	<b>Jeans ('000)</b>													
	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
<b>Q4</b>	<b>Men's and boys' shirts ('000)</b>													
	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	-9.7
	Trend	2 767	2 667	2 561	2 542	2 638	2 642	2 504	2 366	2 272			-4.0	-13.9
<b>Q5</b>	<b>Women's shirts and blouses(f) ('000)</b>													
	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
<b>Q6</b>	<b>Undressed sawntimber(b)(g) ('000 m<sup>3</sup>)</b>													
	Original	883	925	951	840	800	835	1 235	1 053	n.y.a.			-14.7	25.4
	Seasonally adjusted	940	907	904	850	850	820	1 173	1 066	n.y.a.			-9.1	25.5
	Trend	931	916	892	843	847	926	1 034	1 131	n.y.a.			9.4	34.2
<b>Q7</b>	<b>Hardwood woodchips ('000 tonnes)</b>													
	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
<b>Q8</b>	<b>Alumina(b) ('000 tonnes)</b>													
	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
<b>Q9</b>	<b>Zinc(b) ('000 tonnes)</b>													
	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
<b>Q10</b>	<b>Silver(b) (tonnes)</b>													
	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
<b>Q11</b>	<b>Copper(b) ('000 tonnes)</b>													
	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
<b>Q12</b>	<b>Lead(b) ('000 tonnes)</b>													
	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
<b>Q13</b>	<b>Tin(b) (tonnes)</b>													
	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
<b>Q14</b>	<b>Gold(b) (tonnes)</b>													
	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 beer production.

- 1** The June seasonally adjusted estimate is the same as the May estimate.
- 2** The June seasonally adjusted estimate is higher than the May estimate by 5%.
- 3** The June seasonally adjusted estimate is lower than the May estimate by 5%.
- 4** The June seasonally adjusted estimate results in a revised May trend estimate which is identical to the new June trend estimate.

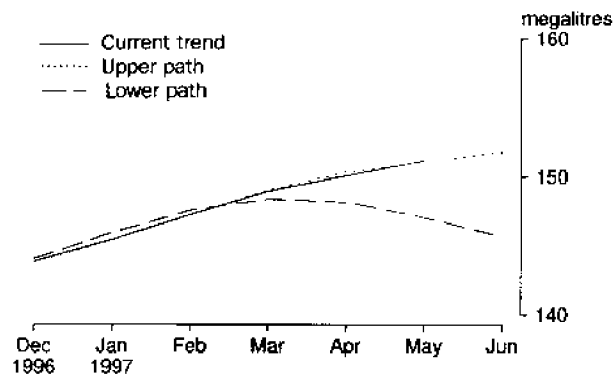
The percentage change of 5% was chosen because it currently represents the average absolute monthly percentage change for this series over the last thirty years.

### M11 BEER (megalitres)

	TREND as PUBLISHED	WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:			
		<b>1</b> 144 <i>i.e. the same as May 1997</i>	<b>2</b> 152 <i>i.e. rises by 5%</i>	<b>3</b> 137 <i>i.e. falls by 5%</i>	<b>4</b> 147 <i>i.e. same trend for May and June</i>
1997					
March	149	149	149	148	149
April	150	149	150	148	150
May	151	149	151	147	150
June (new)	—	149	152	146	150

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 BEER



# 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.

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

## EXPLANATORY NOTES *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

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

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