



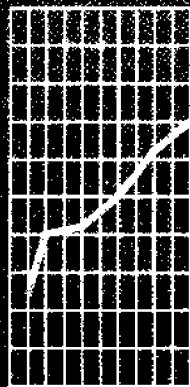
April 1997

EMBARGO: 11:30 AM (CANBERRA TIME) MON 2 JUNE 1997

Manufacturing Production

Australia

STATISTICS



NOTES

FORTHCOMING ISSUES	ISSUE	RELEASE DATE
	May 1997	2 July 1997
	June 1997	31 July 1997
	September quarter 1997	12 November 1997

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.

Trend estimates for the series M7 Biscuits and M8 Chocolate based confectionery have been adjusted, to allow for recent abnormal production levels, which are expected to return to normal from May 1997. Recent movements in the series M31 Rigid PVC tubes, pipes and hoses 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.

From April 1997, new data for the series M43 Telephones are not available. This item is no longer collected.

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.

Dennis Trewin
Acting Australian Statistician

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KEY POINTS

GENERAL TRENDS

Latest trends indicate that of the 57 indicators available, 20 showed rising production trends, 13 showed falling trends while 24 were relatively stable.

	Indicators available	PUBLISHED PRODUCTION TREND.....		
		Rising	Falling	Stable
February 1997 issue	57	19	17	21
March 1997 issue	57	24	17	16
April 1997 issue	57	20	13	24

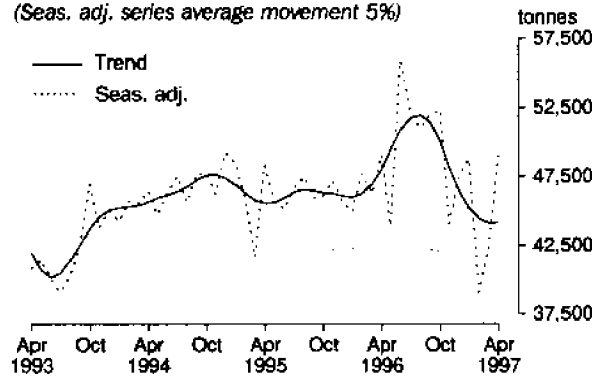
SERIES TRENDS

Two of the more notable trends were production of malt and electricity. The trend for production of malt was stable (increasing 0.1%), after previously falling from a peak in August 1996. This series will continue to rise in May 1997 unless there is a fall in the seasonally adjusted series of more than 16% (the average movement for this series is 5%).

Electricity production for April 1997 was stable (falling slightly, by 0.1%), after previously rising from a low point in September 1996. This series will fall again in May 1997 unless the seasonally adjusted series rises by nearly 6% (the average movement for this series is 1%).

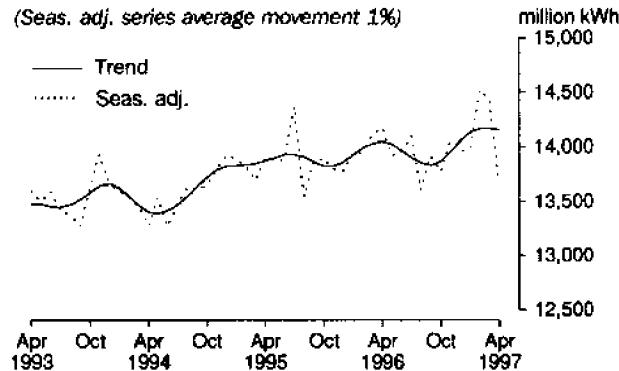
M10 MALT

(Seas. adj. series average movement 5%)



M48 ELECTRICITY

(Seas. adj. series average movement 1%)

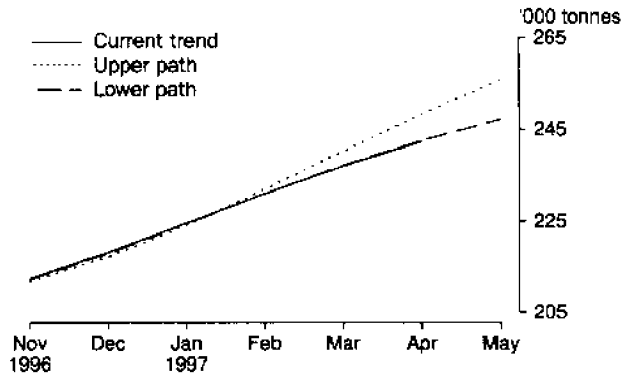
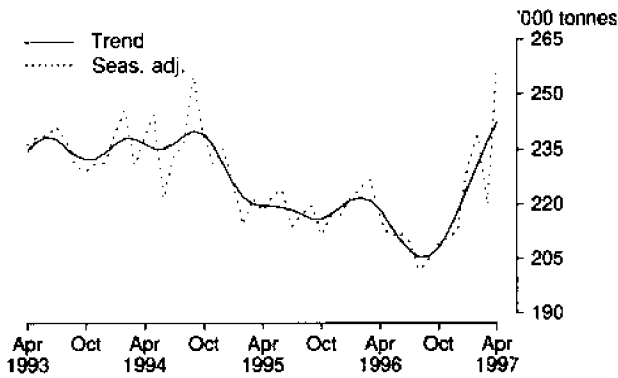


M MONTHLY PRODUCTION

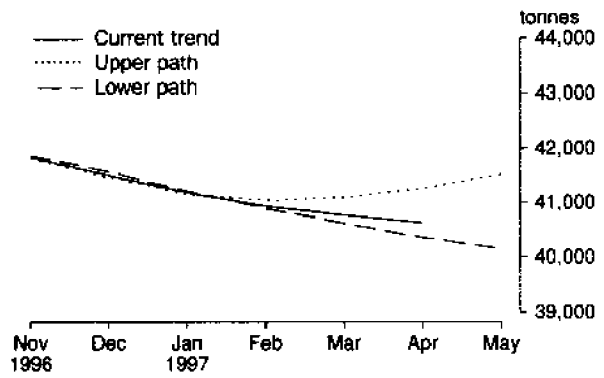
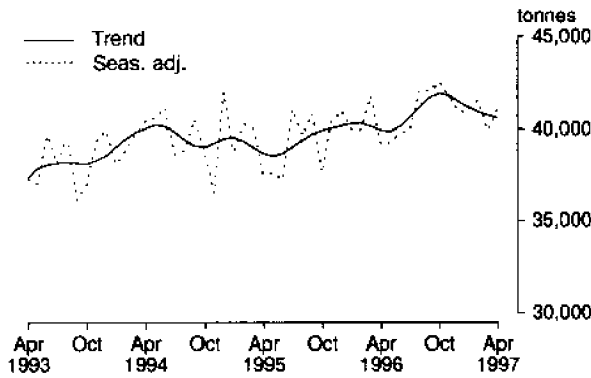
Longer term trend(a)

Short-term sensitivity analysis

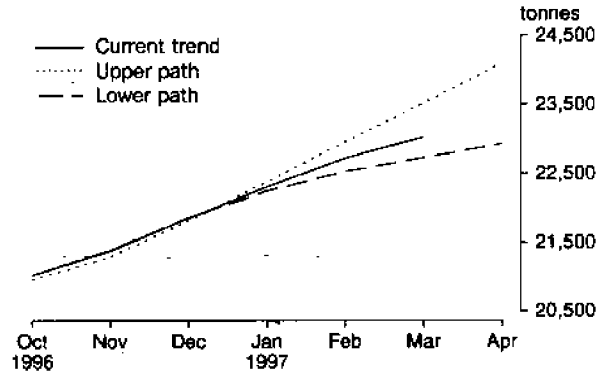
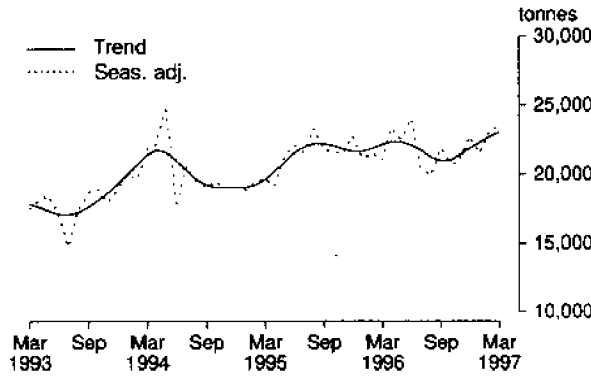
M1 RED MEAT (seasonally adjusted series average movement 4%)



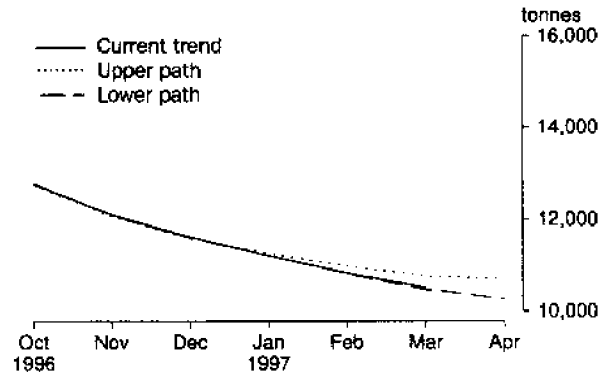
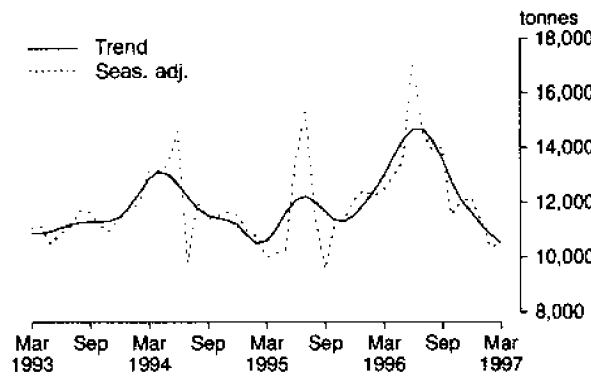
M2 CHICKEN MEAT (seasonally adjusted series average movement 4%)



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



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

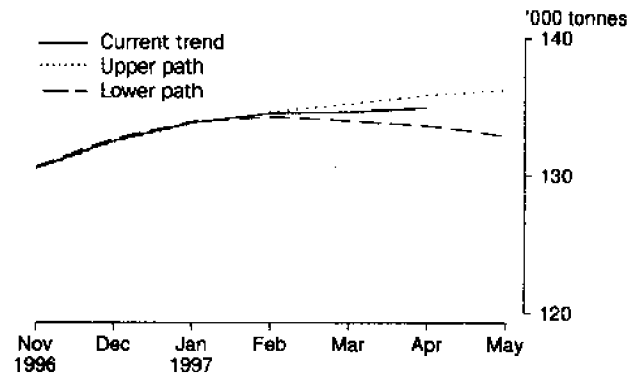
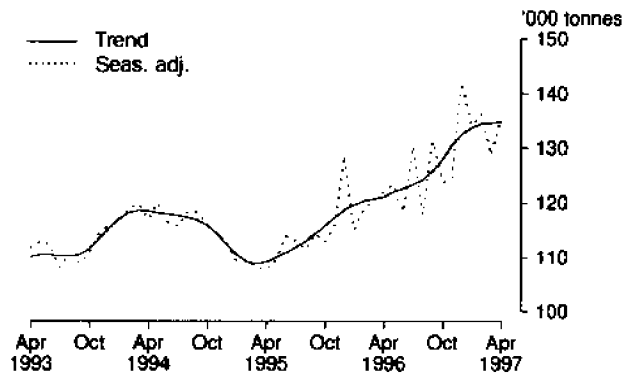


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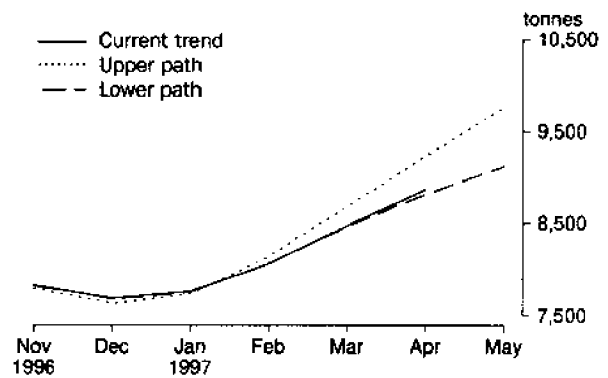
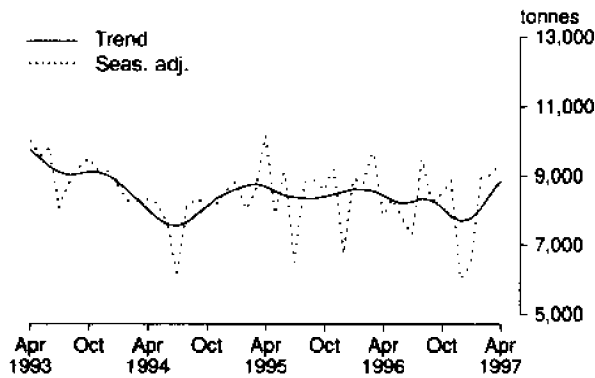
Longer term trend(a)

Short-term sensitivity analysis

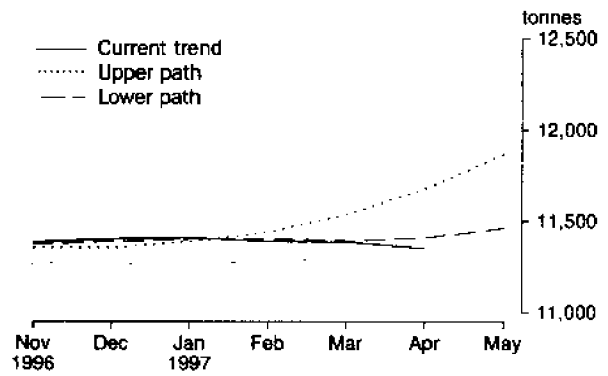
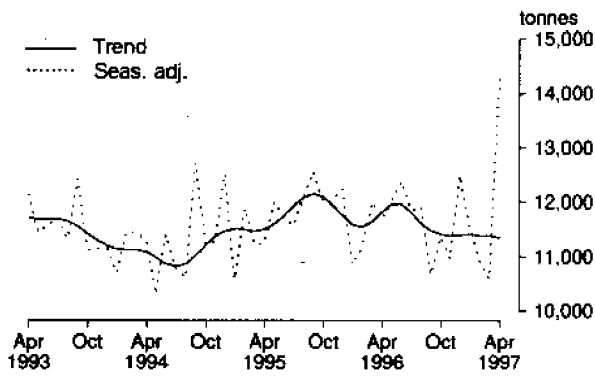
M5 FLOUR OF WHEAT OR OF MESLIN (seasonally adjusted series average movement 3%)



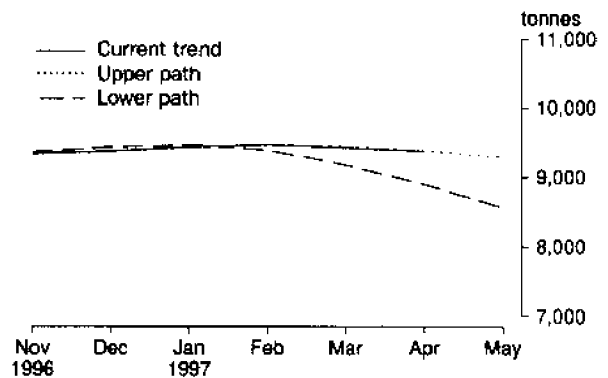
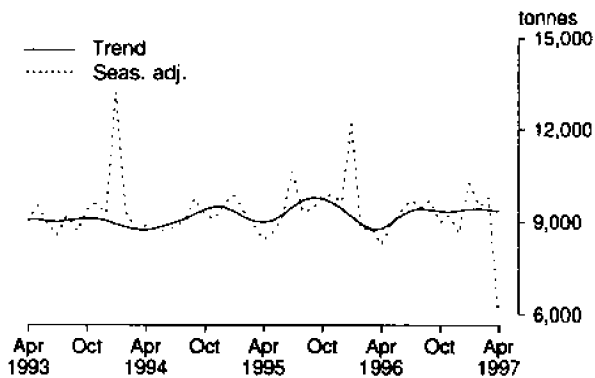
M6 PREPARED FOODS FROM CEREALS (seasonally adjusted series average movement 8%)



M7 BISCUITS(d) (seasonally adjusted series average movement 4%)



M8 CHOCOLATE BASED CONFECTIONERY(d) (seasonally adjusted series average movement 7%)

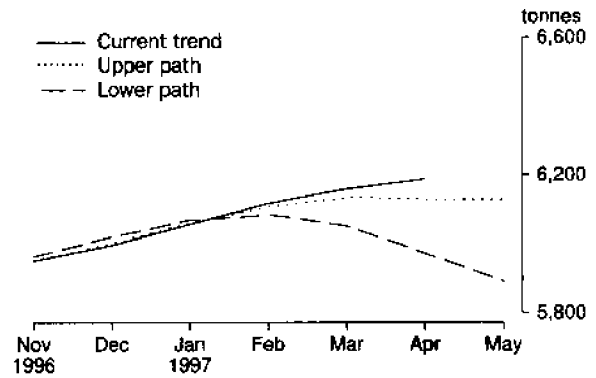
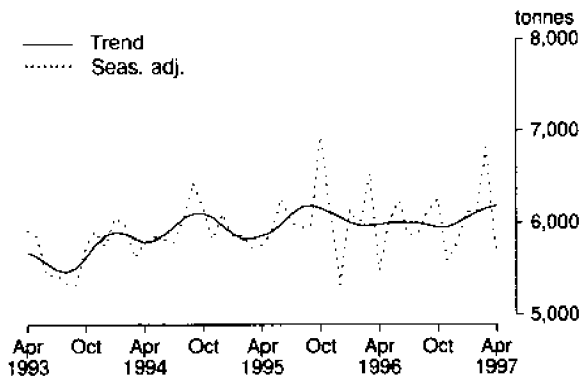


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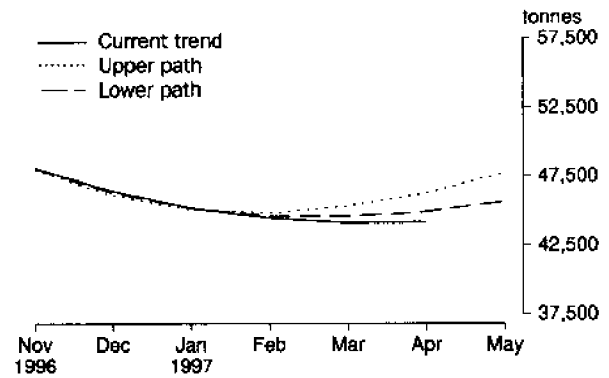
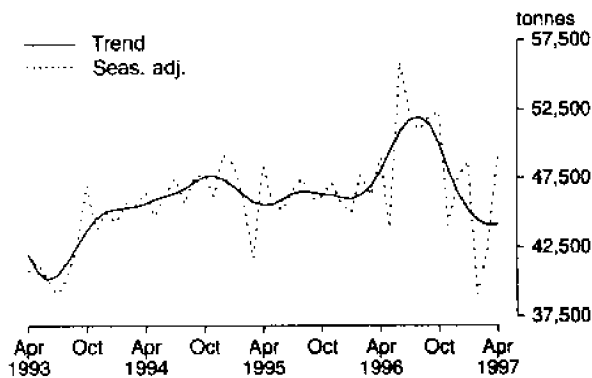
Longer term trend(a)

Short-term sensitivity analysis

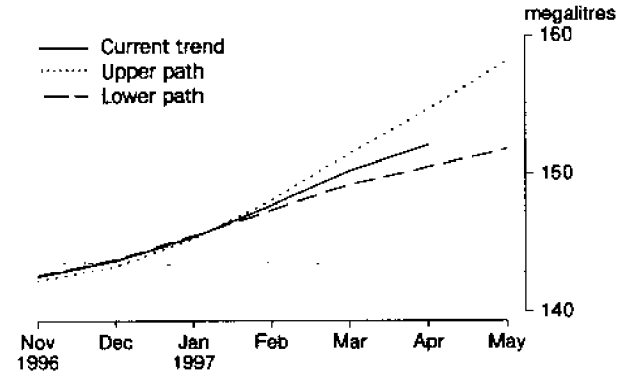
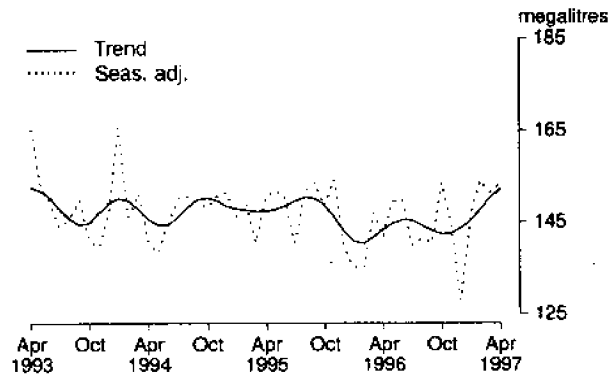
M9 OTHER CONFECTIONERY (seasonally adjusted series average movement 5%)



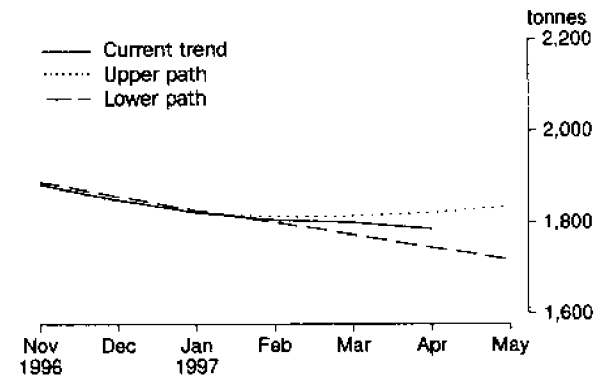
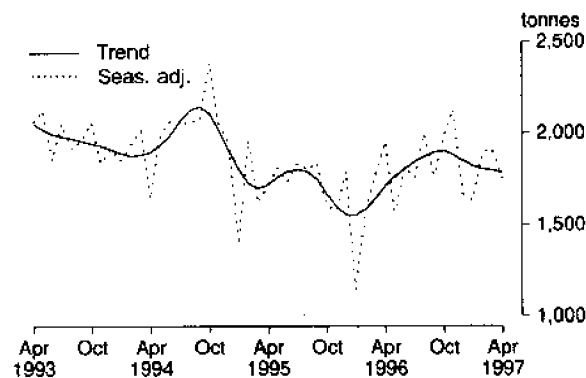
M10 MALT (seasonally adjusted series average movement 5%)



M11 BEER (seasonally adjusted series average movement 5%)



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

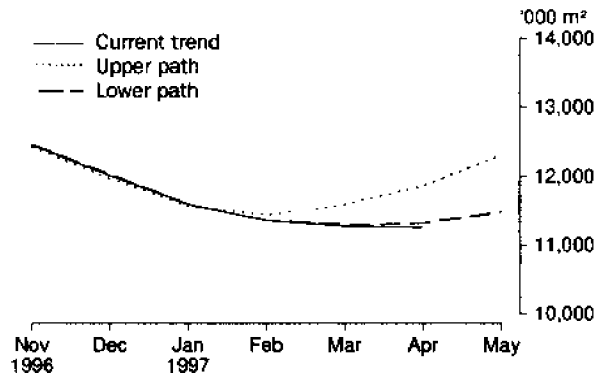
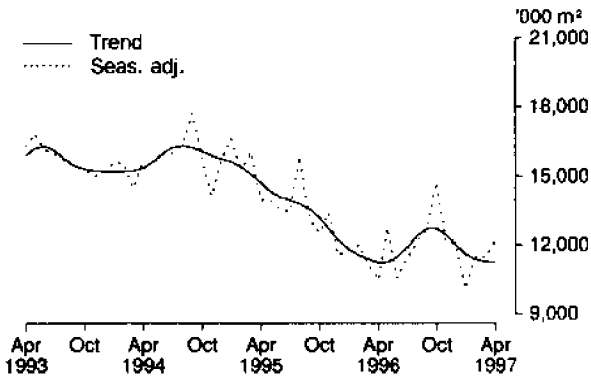


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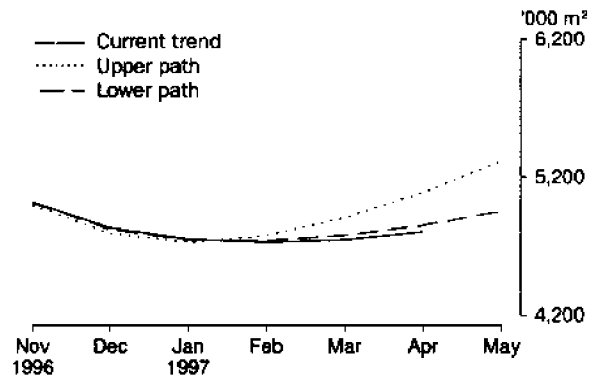
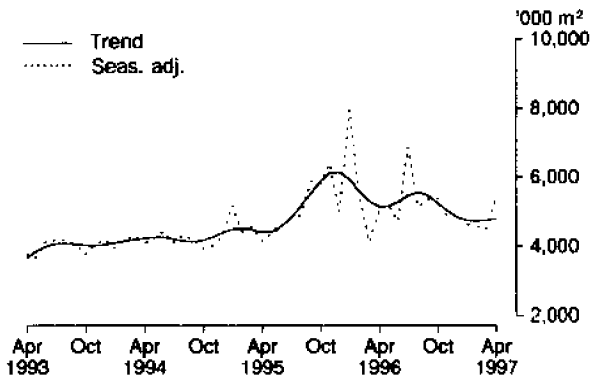
Longer term trend(a)

Short-term sensitivity analysis

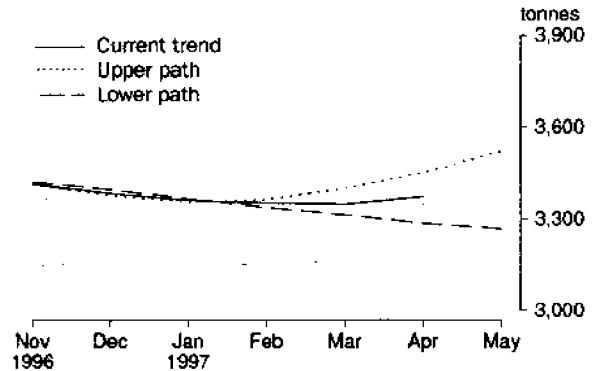
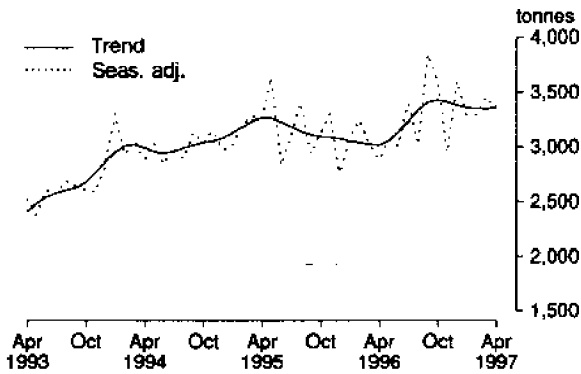
M13 MAN-MADE FIBRE WOVEN FABRIC (seasonally adjusted series average movement 8%)



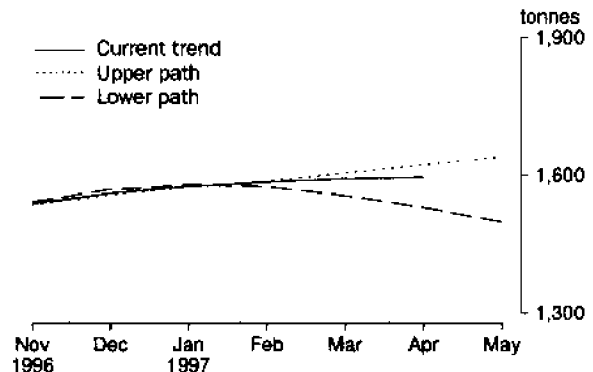
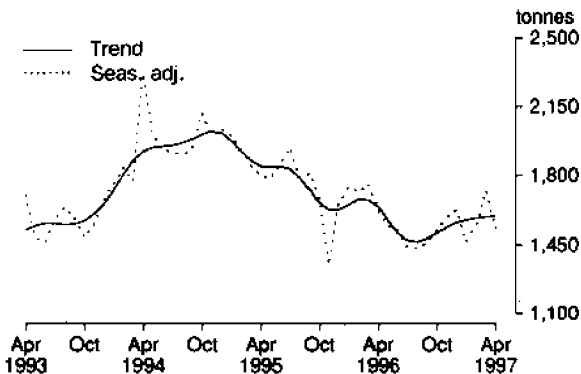
M14 COTTON WOVEN FABRIC (seasonally adjusted series average movement 9%)



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



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



For footnotes see page 23.

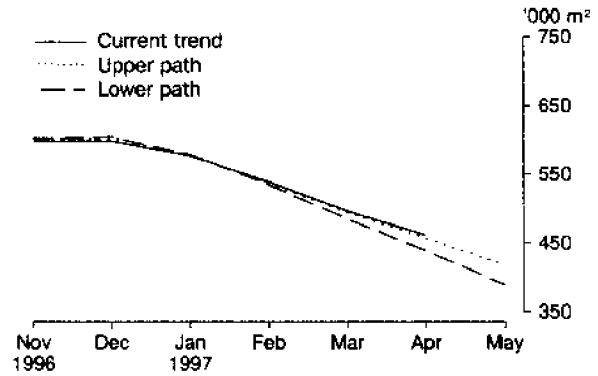
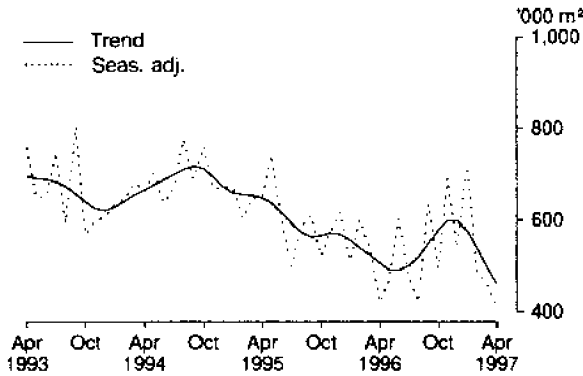
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MONTHLY PRODUCTION *continued*

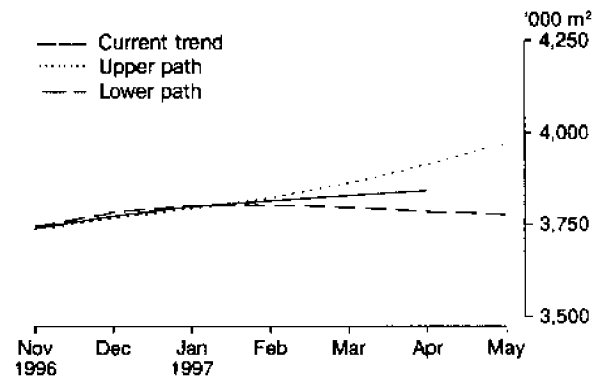
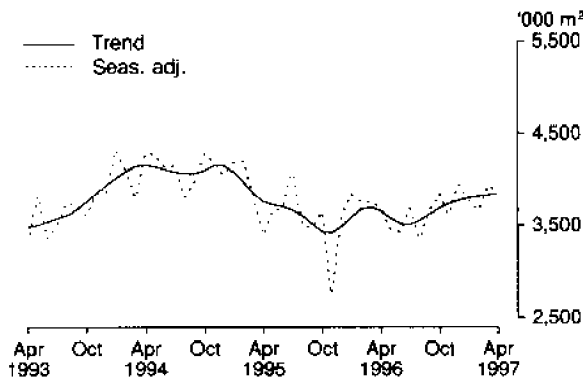
Longer term trend(a)

Short-term sensitivity analysis

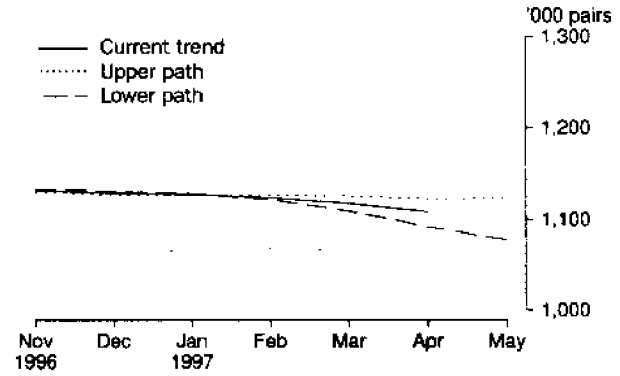
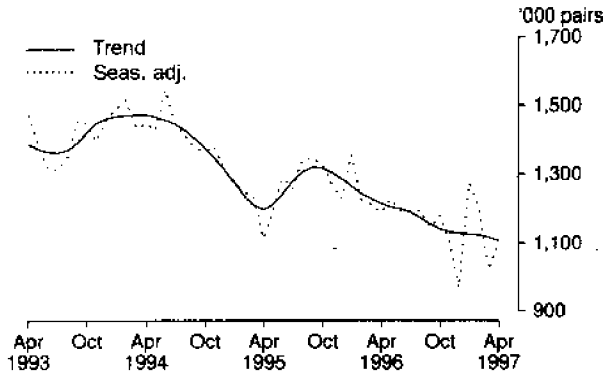
M17 WOOL WOVEN FABRIC *(seasonally adjusted series average movement 8%)*



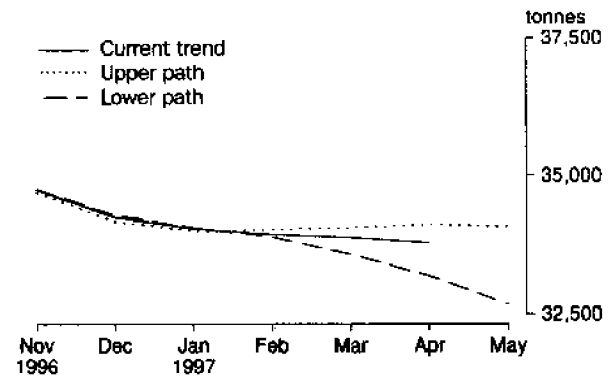
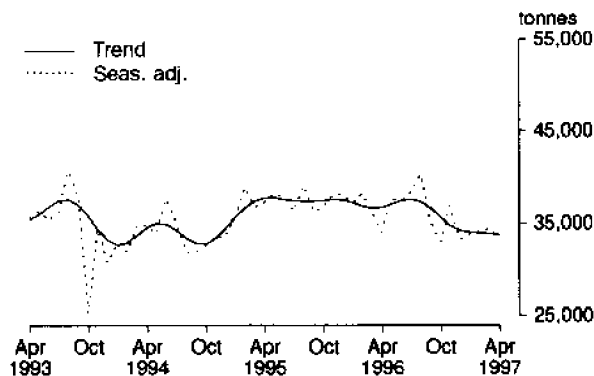
M18 TEXTILE FLOOR COVERINGS *(seasonally adjusted series average movement 6%)*



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



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

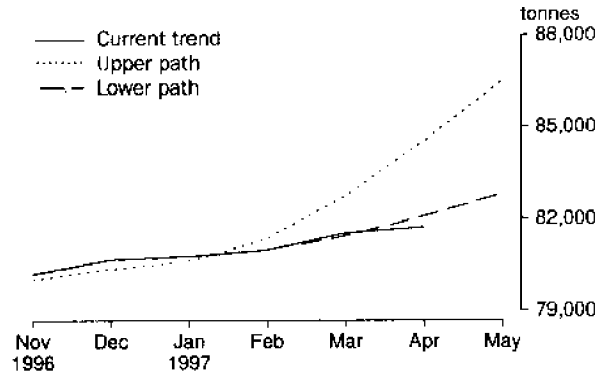
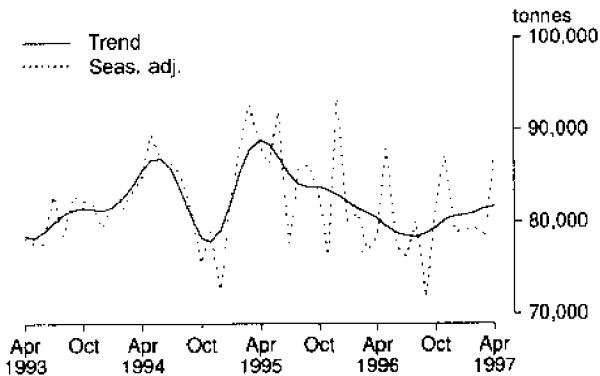


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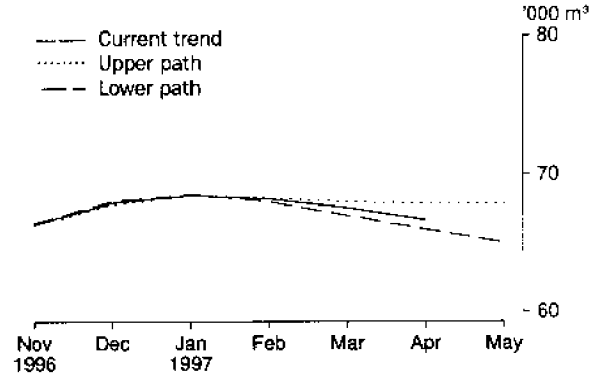
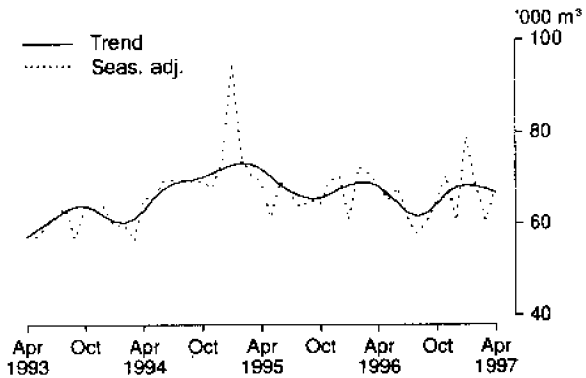
Longer term trend(a)

Short-term sensitivity analysis

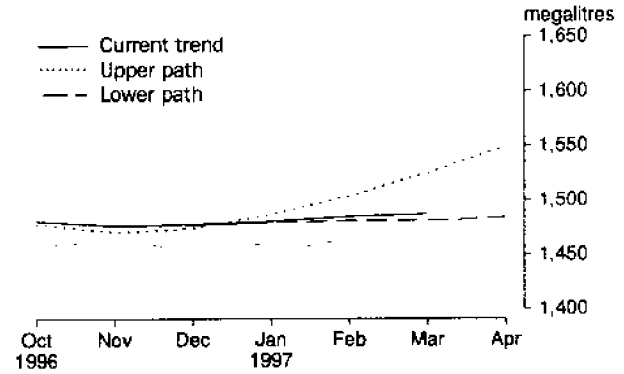
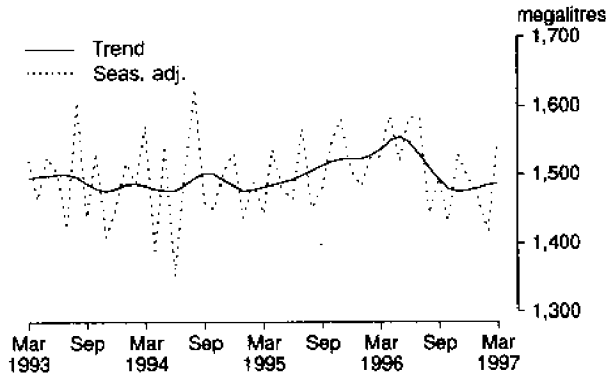
M22 WOOD PULP (seasonally adjusted series average movement 5%)



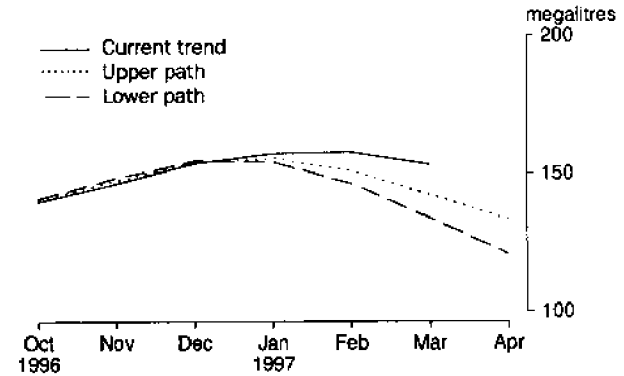
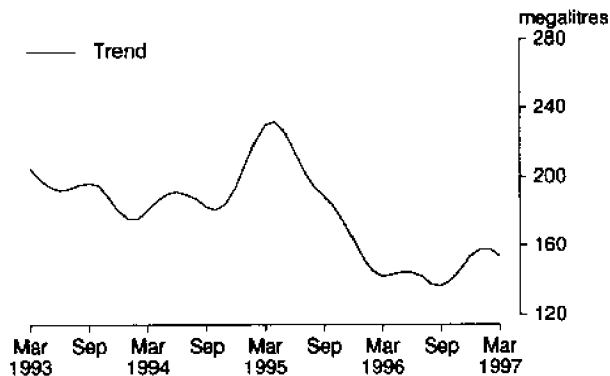
M23 UNLAMINATED PARTICLE BOARD (seasonally adjusted series average movement 5%)



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.

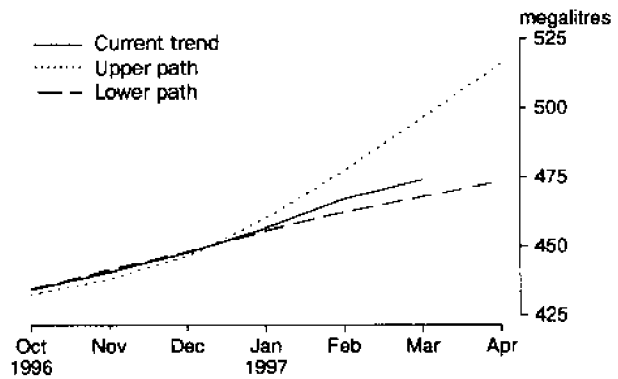
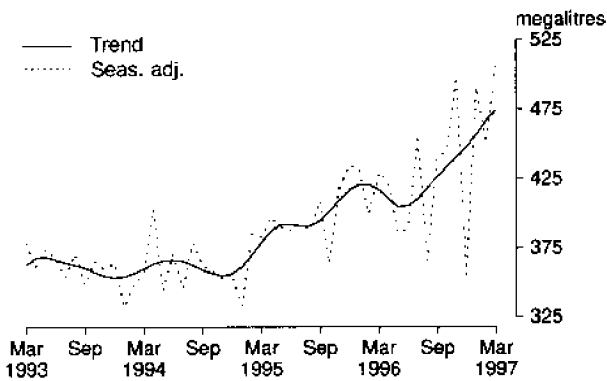
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MONTHLY PRODUCTION *continued*

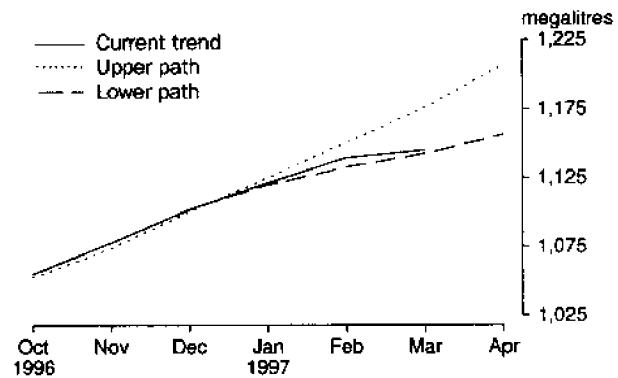
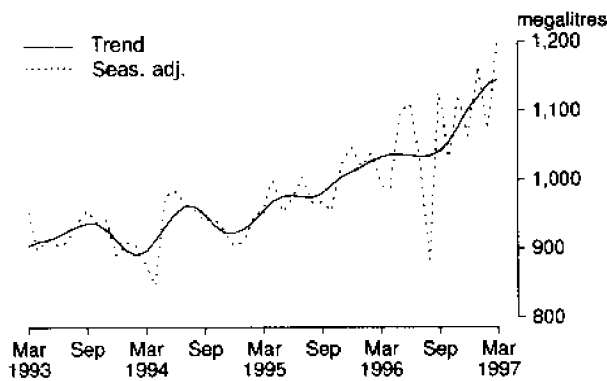
Longer term trend(a)

Short-term sensitivity analysis

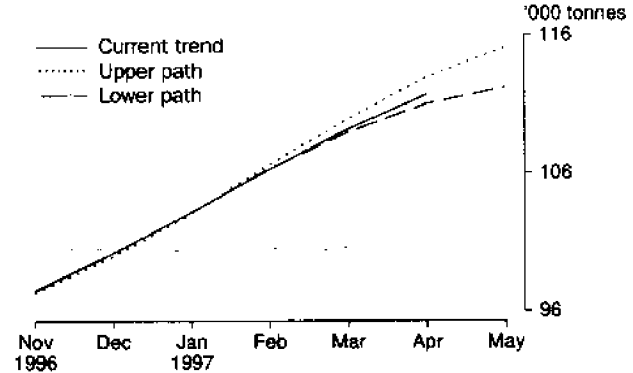
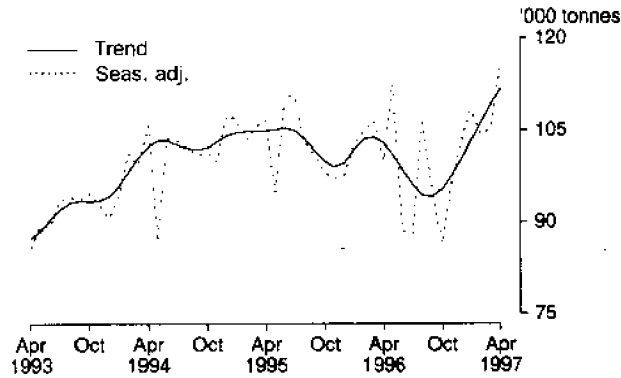
M28 AVIATION TURBINE FUEL(b) (seasonally adjusted series average movement 9%)



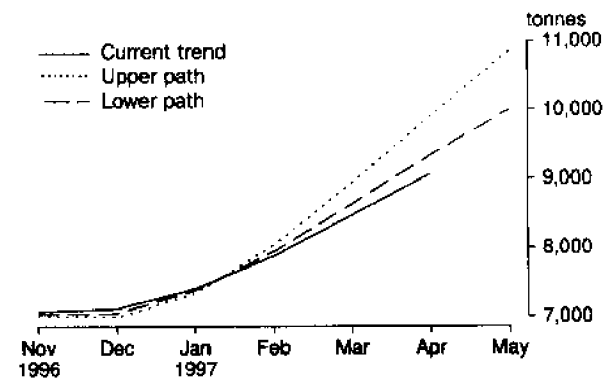
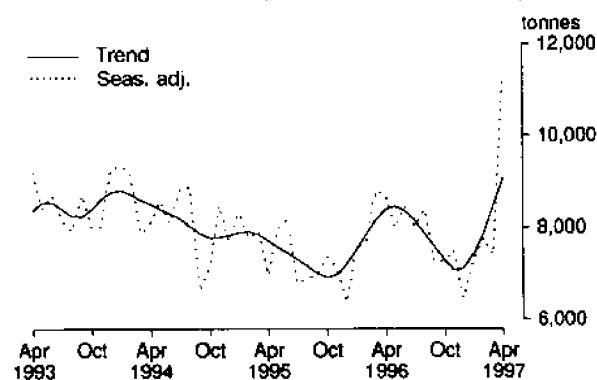
M29 AUTOMOTIVE DIESEL OIL(b) (seasonally adjusted series average movement 5%)



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



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

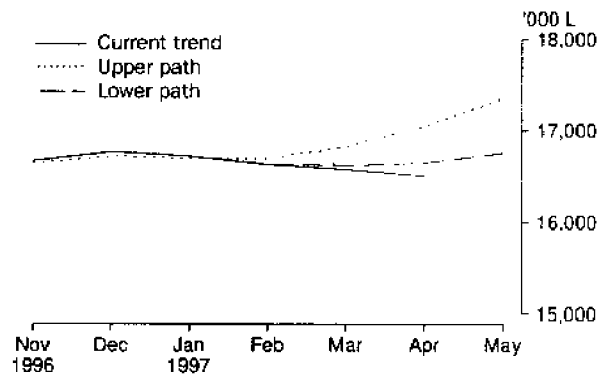
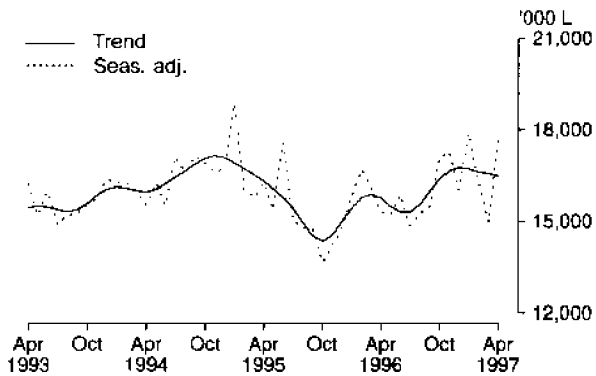


For footnotes see page 23.

Longer term trend(a)

Short-term sensitivity analysis

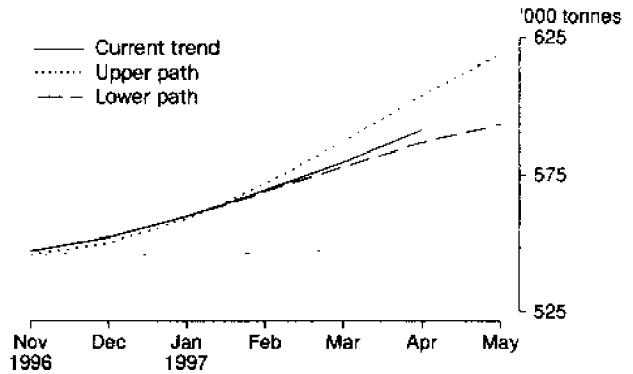
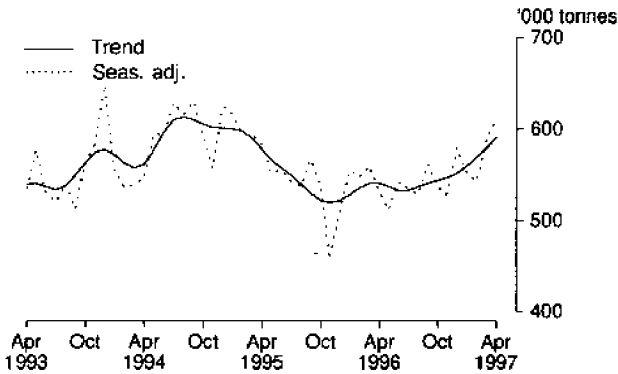
M33 PAINT (seasonally adjusted series average movement 4%)



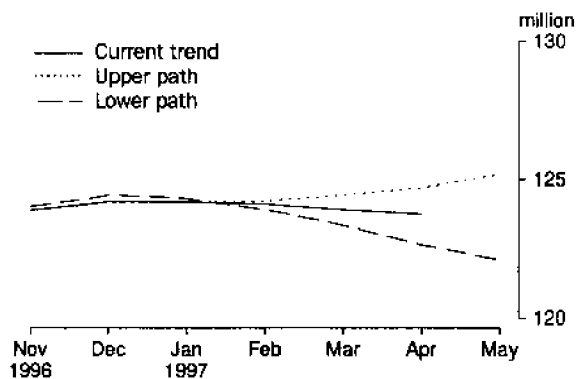
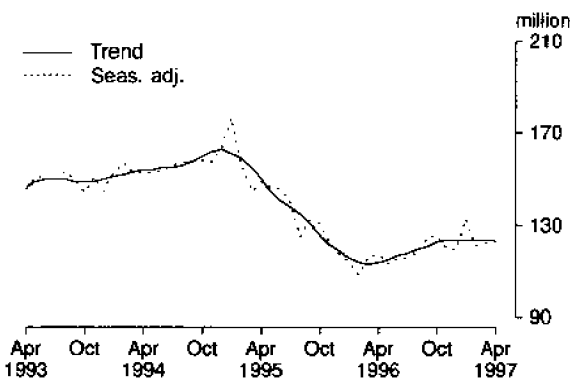
M34 SUPERPHOSPHATES

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%)

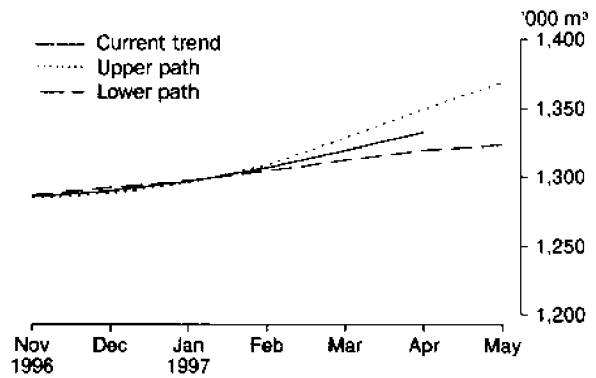
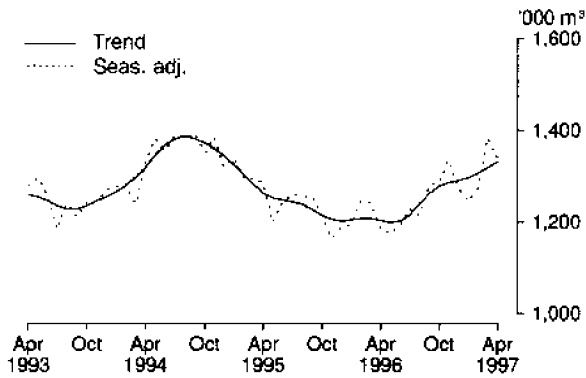


For footnotes see page 23.

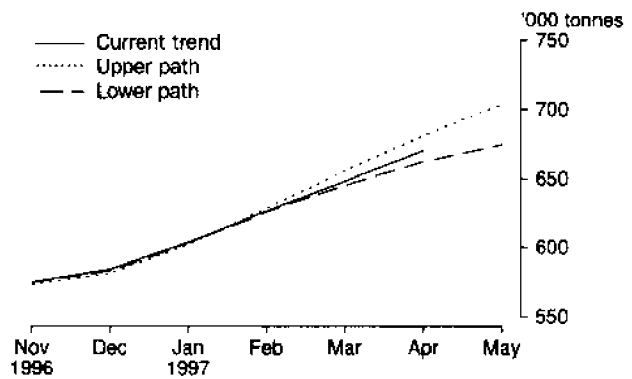
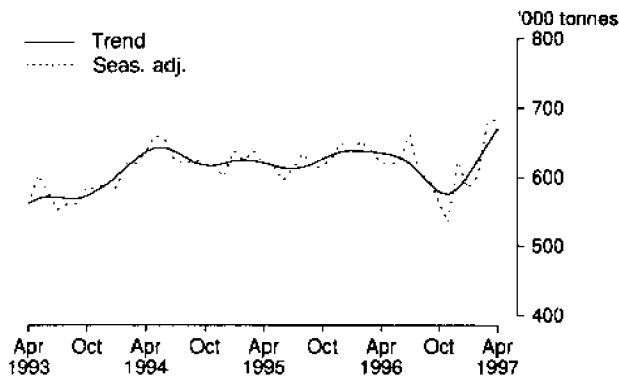
Longer term trend(a)

Short-term sensitivity analysis

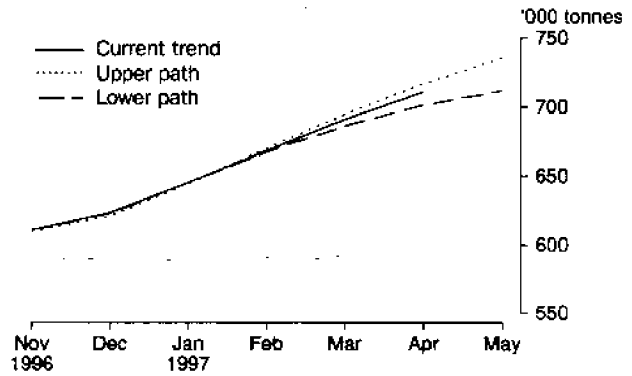
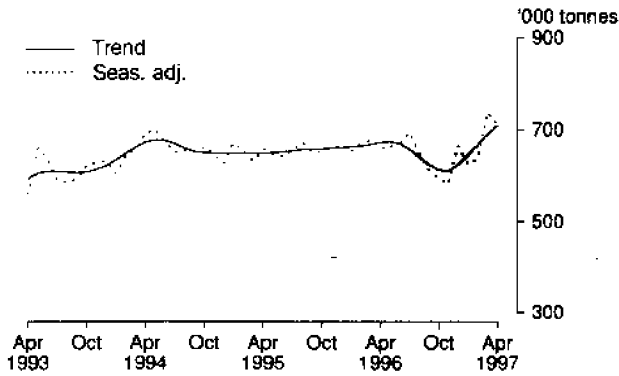
M37 READY MIXED CONCRETE (seasonally adjusted series average movement 4%)



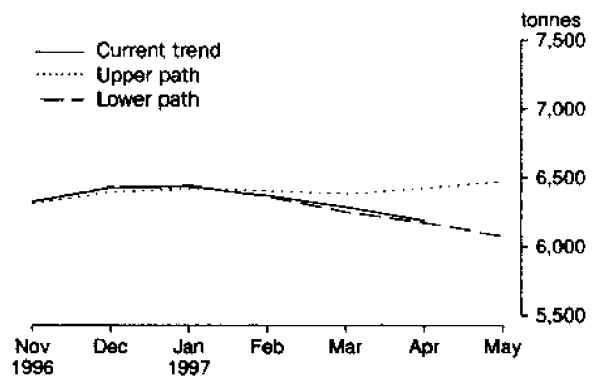
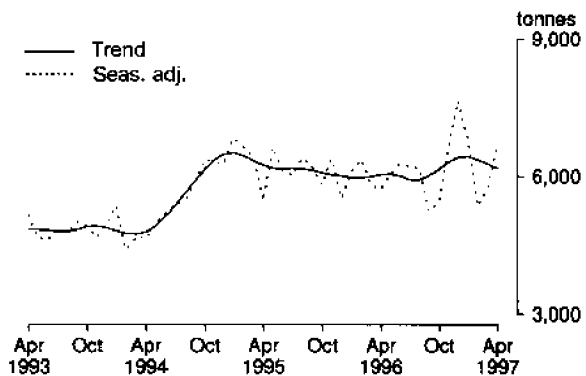
M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(c) (seasonally adjusted series average movement 5%)



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



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

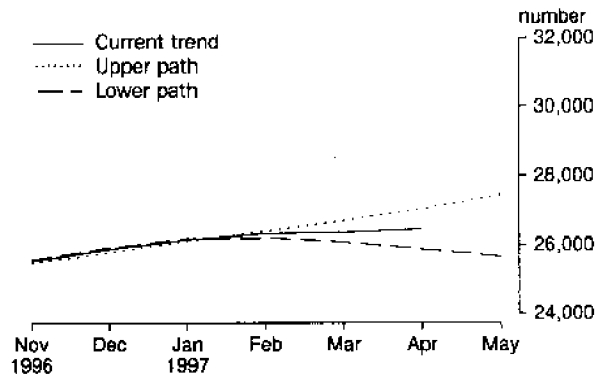
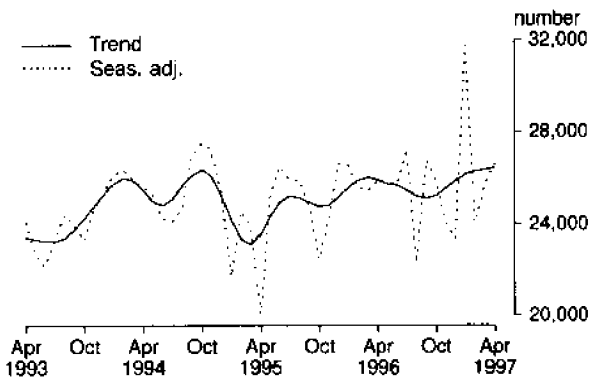


For footnotes see page 23.

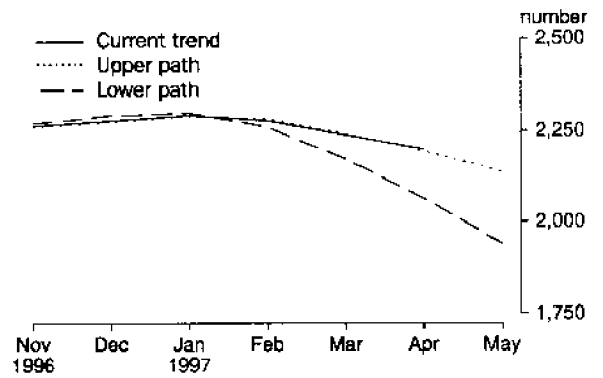
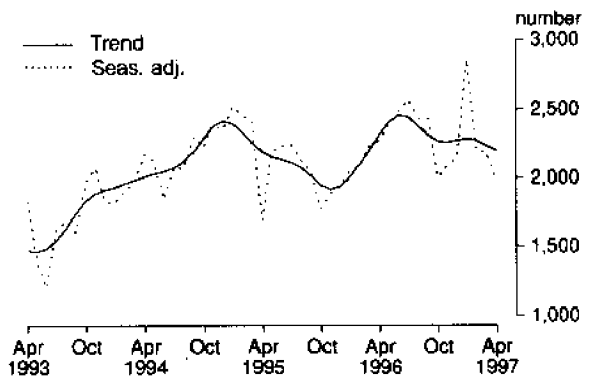
Longer term trend(a)

Short-term sensitivity analysis

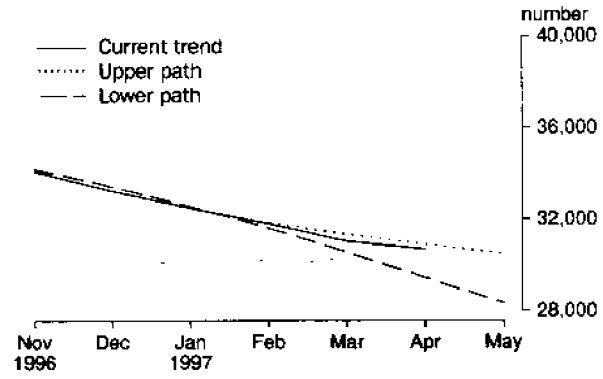
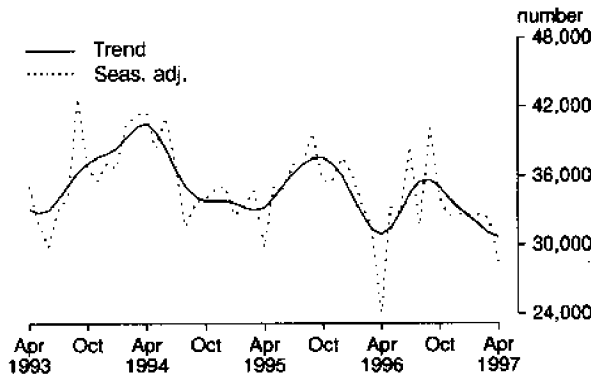
M41 CARS AND STATION WAGONS (seasonally adjusted series average movement 8%)



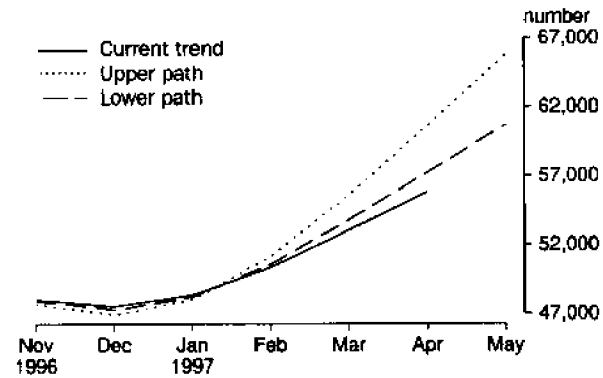
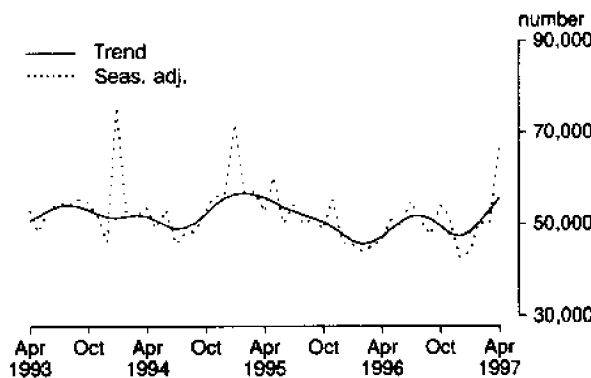
M42 VEHICLES FOR GOODS AND MATERIALS (seasonally adjusted series average movement 11%)



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



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



For footnotes see page 23.

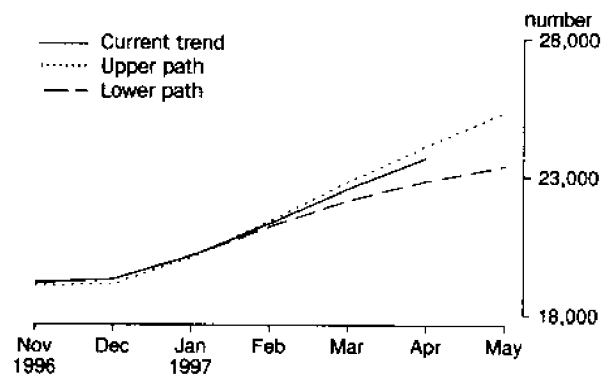
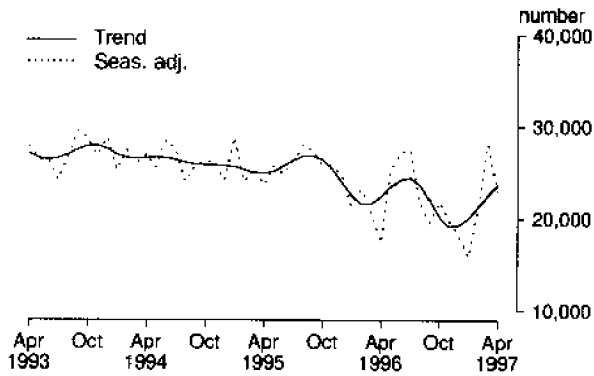
M

MONTHLY PRODUCTION *continued*

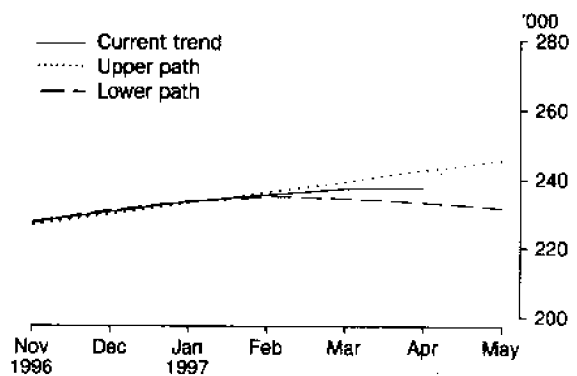
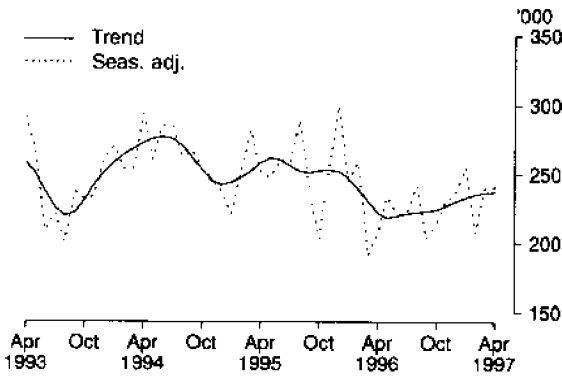
Longer term trend(a)

Short-term sensitivity analysis

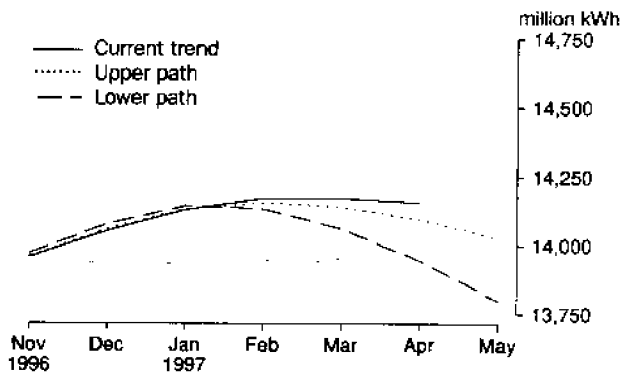
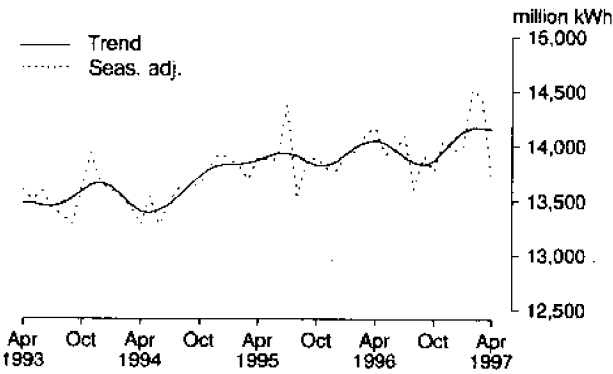
M46 DOMESTIC CLOTHES WASHING MACHINES *(seasonally adjusted series average movement 9%)*



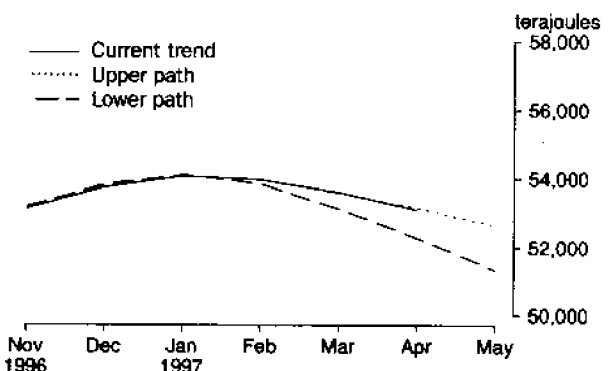
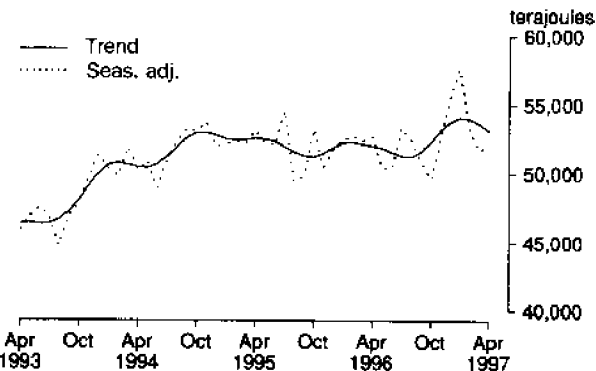
M47 ELECTRIC MOTORS *(seasonally adjusted series average movement 7%)*



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



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



For footnotes see page 23.

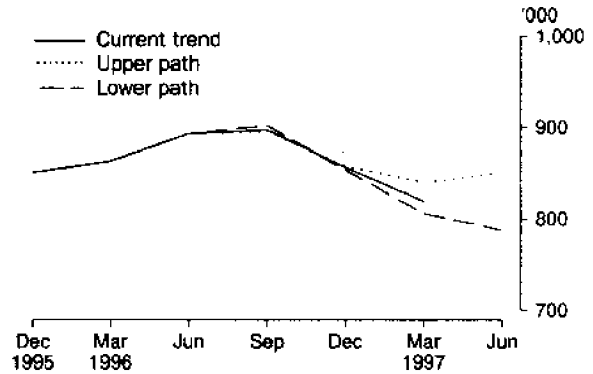
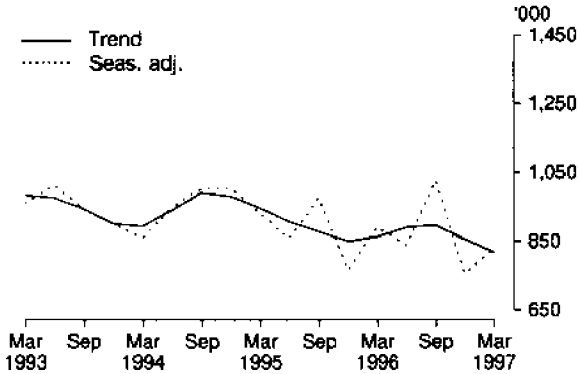
Q

QUARTERLY PRODUCTION

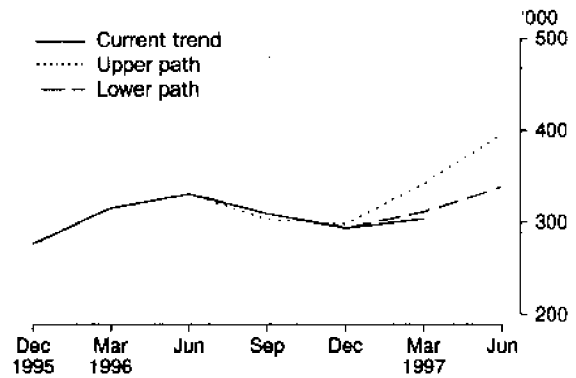
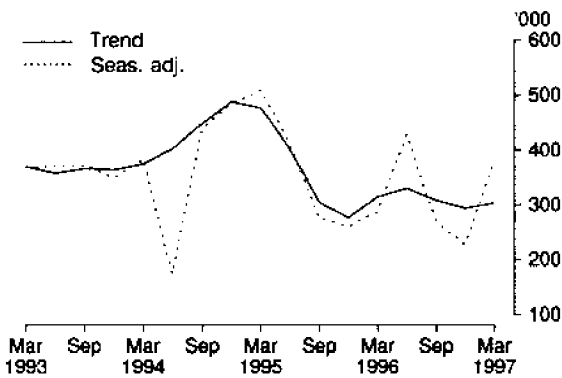
Longer term trend(a)

Short-term sensitivity analysis

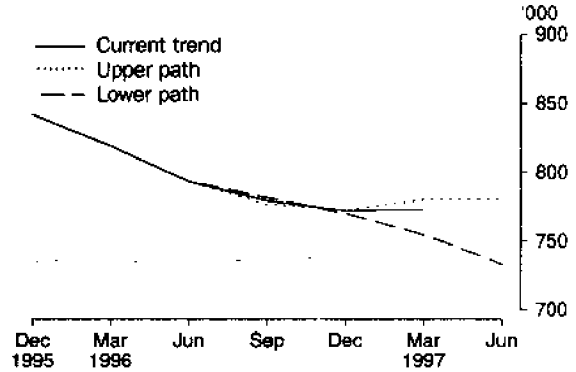
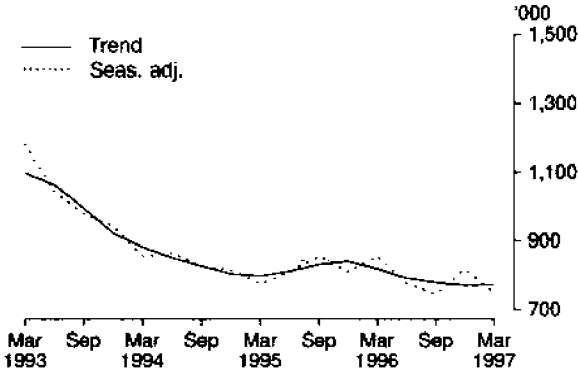
Q1 MEN'S AND BOYS' LONG TROUSERS (seasonally adjusted series average movement 7%)



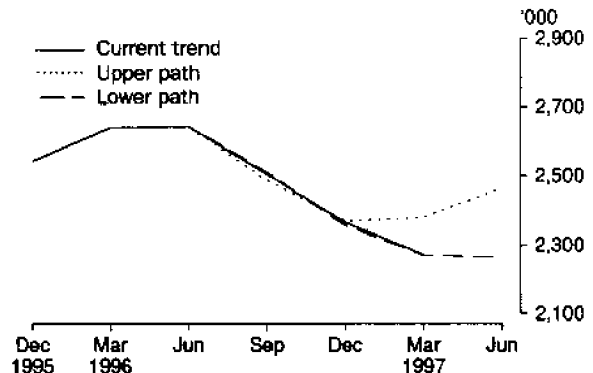
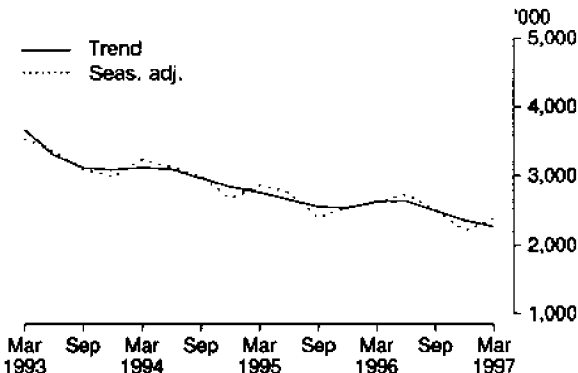
Q2 WOMEN'S AND GIRLS' LONG TROUSERS (seasonally adjusted series average movement 14%)



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.

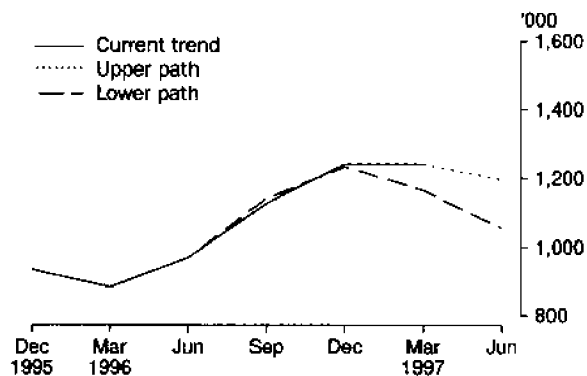
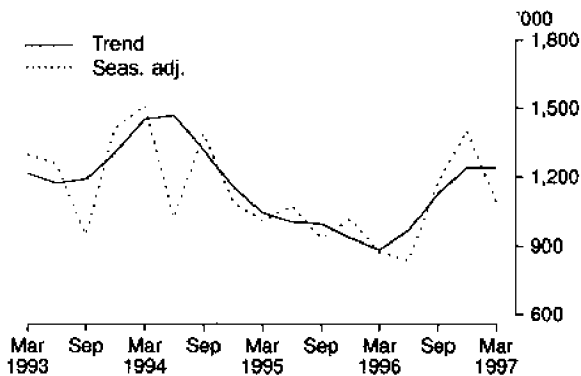
Q

QUARTERLY PRODUCTION *continued*

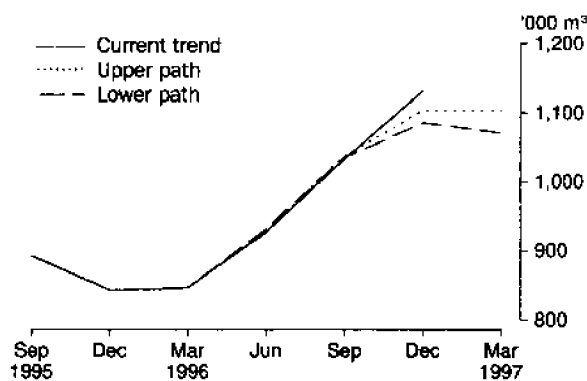
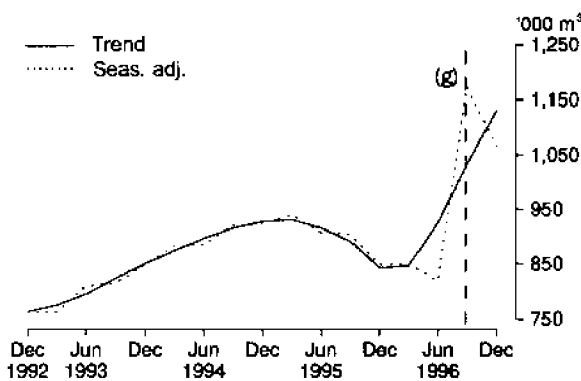
Longer term trend(a)

Short-term sensitivity analysis

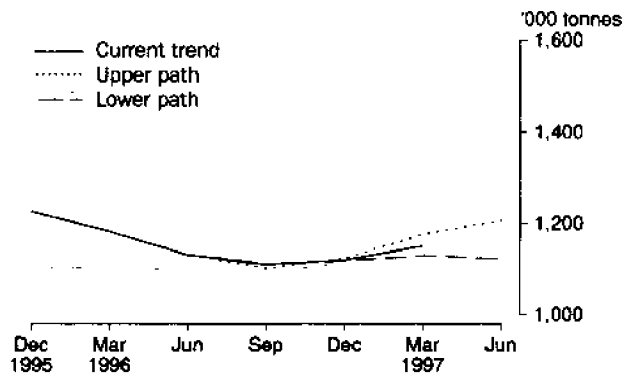
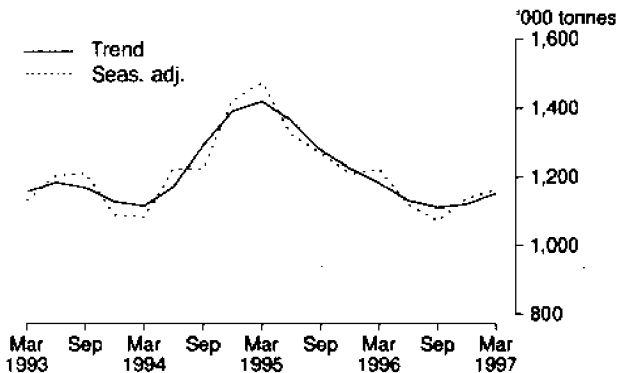
Q5 WOMEN'S SHIRTS AND BLOUSES(f) (seasonally adjusted series average movement 12%)



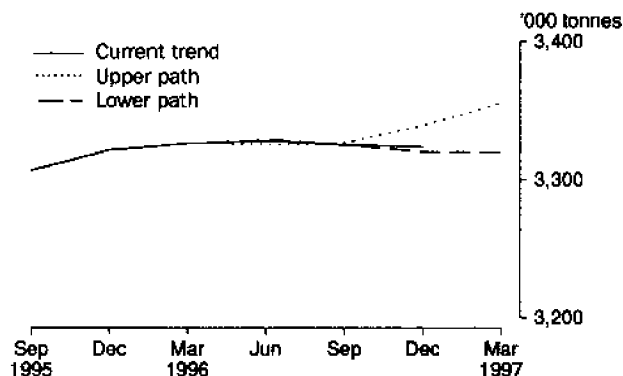
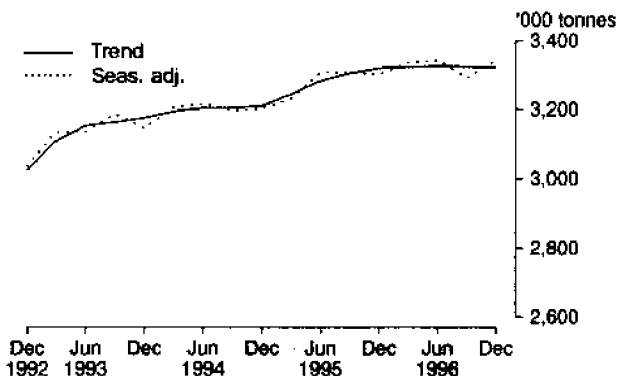
Q6 UNDRESSED SAWN TIMBER(b)(g) (seasonally adjusted series average movement 3%)



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



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



For footnotes see page 23.

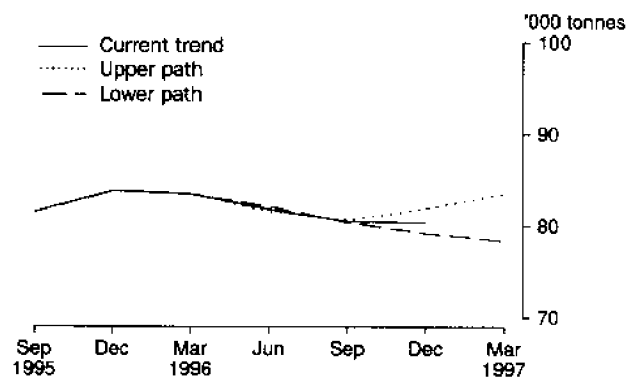
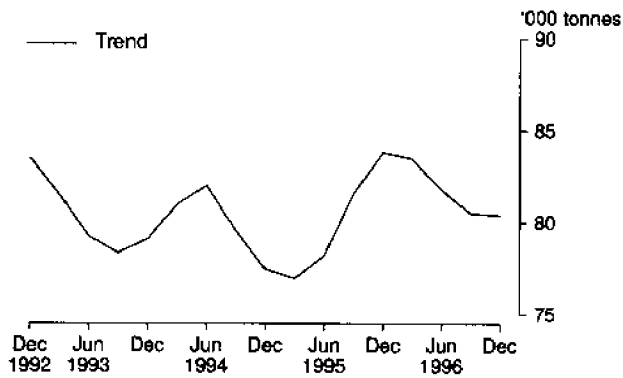
Q

QUARTERLY PRODUCTION *continued*

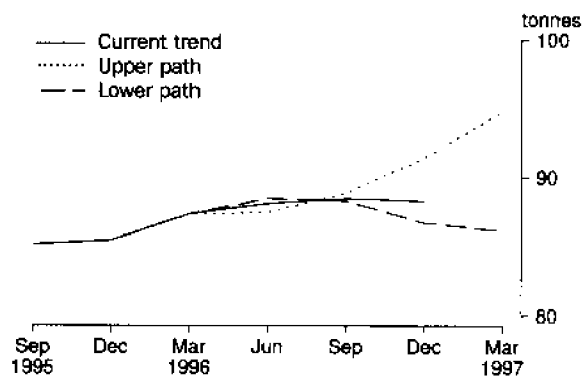
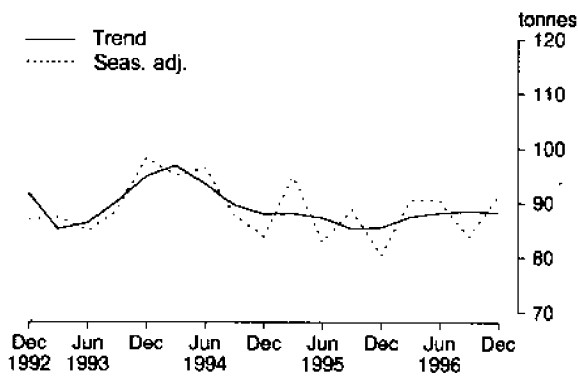
Longer term trend(a)

Short-term sensitivity analysis

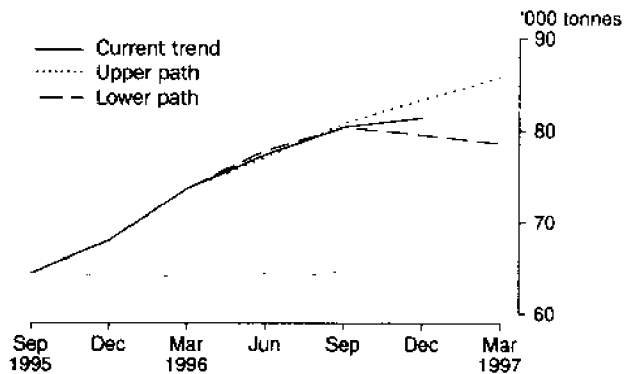
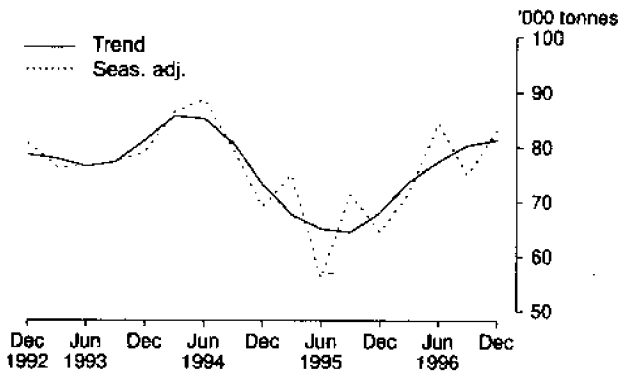
Q9 ZINC(b) (seasonally adjusted series average movement 6%)



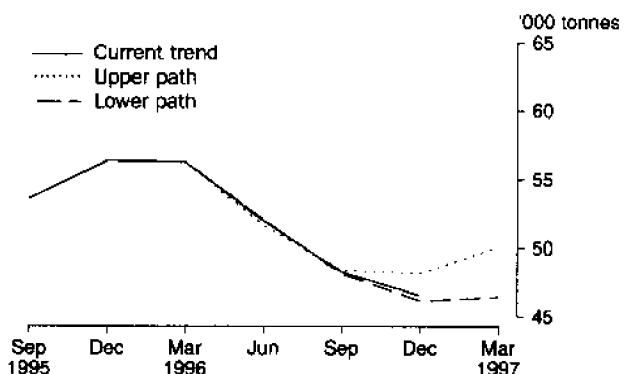
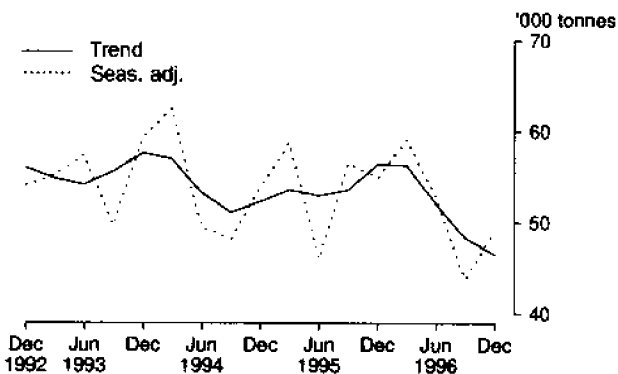
Q10 SILVER(b) (seasonally adjusted series average movement 9%)



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



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



For footnotes see page 23.

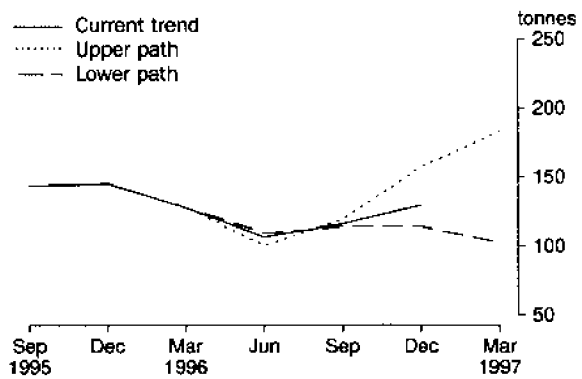
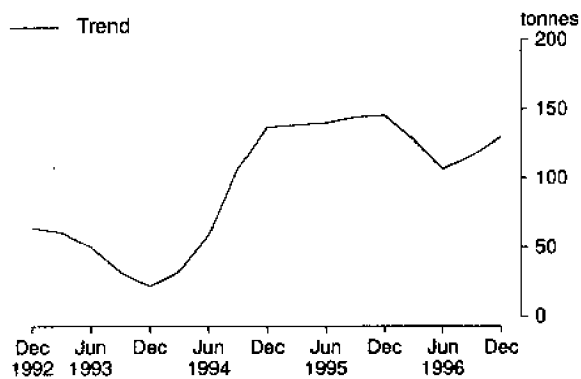
Q

QUARTERLY PRODUCTION *continued*

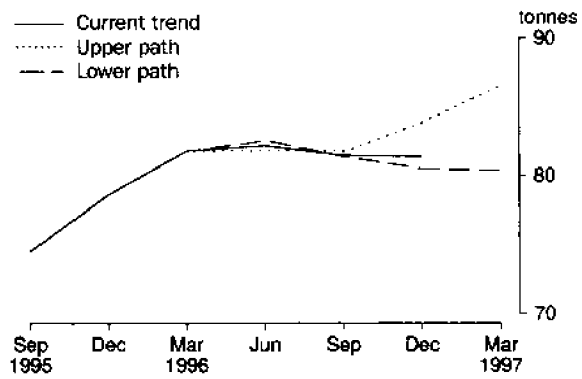
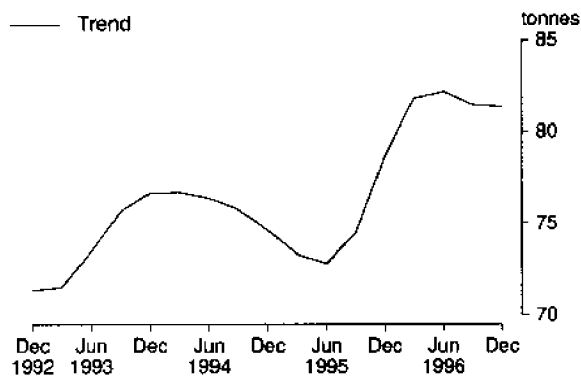
Longer term trend(a)

Short-term sensitivity analysis

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



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



For footnotes see page 23.

1

MONTHLY PRODUCTION

No.	Item and unit/Series(a)	1996.....								1997.....		Percentage changes between latest month shown and.....	
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	prev. month	same month prev. year	
M1	Red meat ('000 tonnes)												
	Original	204	205	231	226	192	207	r228	r220	252	14.3	21.8	
	Seasonally adjusted	202	205	210	211	r213	r231	239	r220	256	16.7	18.6	
	Trend	205	206	208	212	218	225	231	237	242	2.2	10.9	
M2	Chicken meat (tonnes)												
	Original	39 246	42 130	44 617	38 860	43 288	42 446	r39 097	r40 323	42 491	5.4	7.7	
	Seasonally adjusted	42 106	42 042	42 523	41 821	40 925	41 022	r41 590	r39 895	41 141	3.1	4.9	
	Trend	41 239	41 736	41 960	41 828	41 511	41 180	40 935	40 762	40 627	-0.3	1.7	
M3	Cheese(b) (tonnes)												
	Original r	18 005	26 506	31 158	30 244	29 064	25 865	22 006	21 982	n.y.a.	-0.1	10.5	
	Seasonally adjusted r	19 942	21 847	20 764	20 937	22 700	21 470	23 079	23 465	n.y.a.	1.7	11.7	
	Trend r	21 255	20 977	21 025	21 380	21 858	22 306	22 719	23 026	n.y.a.	1.4	3.9	
M4	Butter(b) (tonnes)												
	Original r	8 697	16 501	18 074	20 097	19 433	14 695	10 111	9 975	n.y.a.	-1.3	-14.7	
	Seasonally adjusted r	13 944	14 015	11 546	12 019	12 211	11 321	10 352	10 619	n.y.a.	2.6	-14.9	
	Trend r	14 270	13 573	12 780	12 101	11 621	11 210	10 837	10 537	n.y.a.	-2.8	-18.8	
M5	Flour of wheat or of meslin ('000 tonnes)												
	Original	126	132	127	130	128	126	131	130	127	-2.4	13.7	
	Seasonally adjusted	118	131	124	125	142	134	136	129	136	5.2	11.0	
	Trend	124	126	128	131	133	134	135	135	135	0.2	11.4	
M6	Prepared foods from cereals (tonnes)												
	Original	8 991	8 722	8 713	9 274	6 096	5 988	8 638	9 890	8 422	-14.8	15.7	
	Seasonally adjusted	9 506	8 294	8 505	8 870	6 019	6 503	8 930	9 039	9 375	3.7	19.4	
	Trend	8 343	8 300	8 094	7 828	7 686	7 763	8 062	8 474	8 873	4.7	5.0	
M7	Biscuits(d) (tonnes)												
	Original	12 817	11 984	12 424	12 052	10 924	7 499	10 529	11 372	12 378	8.8	24.6	
	Seasonally adjusted	11 922	10 673	11 365	10 967	12 503	11 517	10 936	10 606	14 291	34.7	22.2	
	Trend	11 614	11 479	11 406	11 384	11 403	11 409	11 390	11 384	11 354	-0.3	-4.0	
M8	Chocolate based confectionery(d) (tonnes)												
	Original	11 148	9 962	10 375	10 363	8 461	6 684	9 699	r8 806	5 272	-40.1	-18.9	
	Seasonally adjusted	9 498	9 735	9 000	9 238	8 640	10 291	9 547	r9 851	5 980	-39.3	-27.8	
	Trend	9 464	9 421	9 364	9 344	9 386	9 443	9 463	9 425	9 378	-0.5	6.6	
M9	Other confectionery (tonnes)												
	Original	6 907	6 822	7 028	6 694	5 414	3 586	5 697	6 164	5 006	-18.8	13.3	
	Seasonally adjusted	5 891	6 148	6 267	5 590	5 776	6 124	6 109	6 817	5 669	-16.8	3.5	
	Trend	6 005	5 976	5 952	5 951	5 998	6 058	6 117	6 160	6 187	0.4	3.4	
M10	Malt (tonnes)												
	Original	51 910	50 375	50 817	48 372	46 904	46 496	40 764	42 116	46 184	9.7	0.1	
	Seasonally adjusted	51 025	52 030	52 350	44 076	47 475	48 766	39 103	42 379	48 975	15.6	-0.1	
	Trend	51 979	51 436	49 993	48 107	46 432	45 234	44 469	44 114	44 169	0.1	-8.1	
M11	Beer (megalitres)												
	Original	136	133	177	175	156	141	140	150	144	-4.1	9.9	
	Seasonally adjusted	141	140	153	145	128	146	154	151	153	1.3	8.2	
	Trend	144	143	142	143	144	145	148	150	152	1.3	6.0	
M12	Tobacco and cigarettes (tonnes)												
	Original	2 242	1 796	1 838	2 183	1 553	969	2 028	1 805	1 606	-11.0	-1.4	
	Seasonally adjusted	1 994	1 770	1 980	2 130	1 671	1 638	1 899	1 912	1 752	-8.3	-10.2	
	Trend	1 874	1 899	1 905	1 885	1 852	1 824	1 807	1 801	1 787	-0.8	4.2	
M13	Man-made fibre woven fabric ('000 m ²)												
	Original	13 061	12 598	15 479	13 502	9 912	6 933	r11 988	r11 492	11 480	-0.1	23.1	
	Seasonally adjusted	12 147	12 682	14 760	12 137	12 041	10 051	r11 467	r11 450	12 184	6.4	16.4	
	Trend	12 398	12 716	12 722	12 448	12 011	11 597	11 363	11 283	11 259	-0.2	0.2	
M14	Cotton woven fabric ('000 m ²)												
	Original	6 003	5 918	5 648	5 510	4 083	2 119	4 595	4 700	5 001	6.4	13.8	
	Seasonally adjusted	5 134	5 371	5 415	4 870	4 915	4 628	4 566	4 502	5 384	19.6	6.3	
	Trend	5 573	5 478	5 257	5 019	4 833	4 754	4 733	4 748	4 804	1.2	-6.6	
M15	Cotton yarn (tonnes)												
	Original	3 409	3 848	3 779	3 220	2 870	2 124	3 257	3 409	3 225	-5.4	28.5	
	Seasonally adjusted	3 020	3 848	3 606	2 949	3 605	3 288	3 299	3 457	3 354	-3.0	16.2	
	Trend	3 345	3 415	3 434	3 415	3 383	3 360	3 352	3 347	3 373	0.8	11.7	

For footnotes see page 23.

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MONTHLY PRODUCTION *continued*

No.	Item and unit/Series(a)	1996.....								1997.....		Percentage changes between latest month shown and.....	
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	prev. month	same month prev. year	
M16	Wool yarn (tonnes)												
	Original	1 577	1 569	1 847	1 613	1 344	1 032	1 554	1 490	1 538	3.2	6.4	
	Seasonally adjusted	1 440	1 464	1 524	1 590	1 631	1 467	1 552	1 726	1 533	-11.2	-5.6	
	Trend	1 469	1 483	1 511	1 539	1 563	1 577	1 587	1 594	1 596	0.2	-2.9	
M17	Wool woven fabric ('000 m²)												
	Original	449	566	581	723	450	470	555	459	480	4.7	16.7	
	Seasonally adjusted	421	633	495	692	541	717	487	461	412	-10.7	-1.7	
	Trend	520	550	580	599	599	577	539	497	462	-7.0	-8.6	
M18	Textile floor coverings ('000 m²)												
	Original	3 684	3 791	4 434	4 079	3 429	2 449	3 762	3 718	3 979	7.0	15.1	
	Seasonally adjusted	3 345	3 650	3 841	3 609	3 943	3 771	3 653	3 927	3 868	-1.5	5.3	
	Trend	3 555	3 621	3 688	3 740	3 774	3 798	3 815	3 829	3 843	0.4	5.2	
M19	Footwear ('000 pairs)												
	Original	1 314	1 248	1 355	1 161	828	713	1 246	1 130	1 103	-2.4	-6.8	
	Seasonally adjusted	1 195	1 146	1 180	1 110	969	1 275	1 205	1 021	1 099	7.5	-7.6	
	Trend	1 175	1 156	1 141	1 132	1 130	1 128	1 125	1 118	1 109	-0.9	-8.9	
M21	Newsprint (tonnes)												
	Original	39 422	33 716	31 685	36 428	33 424	34 772	34 786	34 630	33 907	-2.1	-2.6	
	Seasonally adjusted	40 315	35 018	32 976	36 886	33 245	33 867	34 100	34 439	33 317	-3.3	-2.1	
	Trend	37 323	36 580	35 593	34 743	34 255	34 049	33 943	33 881	33 793	-0.3	-7.8	
M22	Wood pulp (tonnes)												
	Original	85 486	71 242	75 903	92 247	75 439	81 657	76 853	80 922	82 398	1.8	7.5	
	Seasonally adjusted	80 106	71 744	81 984	87 169	78 890	79 265	79 306	78 603	87 367	11.1	11.3	
	Trend	78 432	78 864	79 503	80 230	80 661	80 770	80 993	81 544	81 740	0.2	1.7	
M23	Unlaminated particle board ('000 m³)												
	Original	62	65	78	74	50	47	65	63	71	13.6	4.3	
	Seasonally adjusted	58	61	65	70	60	79	68	61	68	11.6	-1.0	
	Trend	62	62	64	66	68	68	68	68	67	-1.3	-2.1	
M25	Paperboard containers ('000 tonnes)												
	Original	94 662	95 312	109 883	103 329	86 920	87 546	92 407	88 242	95 081	7.8	13.2	
	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.	
M26	Automotive gasoline(b) (megalitres)												
	Original	1 438	1 464	1 416	1 439	1 523	1 543	1 361	1 551	n.y.a.	14.0	1.4	
	Seasonally adjusted	1 443	1 495	1 432	1 530	1 496	1 468	1 417	1 547	n.y.a.	9.2	1.3	
	Trend	1 510	1 493	1 481	1 476	1 478	1 481	1 485	1 487	n.y.a.	0.1	-3.3	
M27	Fuel oil(b) (megalitres)												
	Original	93	147	119	164	139	173	190	93	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	138	137	140	147	154	157	158	153	n.y.a.	-2.9	7.7	
M28	Aviation turbine fuel(b) (megalitres)												
	Original	369	447	502	481	401	505	416	491	n.y.a.	17.9	18.5	
	Seasonally adjusted	366	440	446	499	355	490	450	507	n.y.a.	12.5	18.0	
	Trend	419	427	434	441	448	457	467	474	n.y.a.	1.4	13.7	
M29	Automotive diesel oil(b) (megalitres)												
	Original	895	1 103	1 032	1 111	1 135	1 198	1 013	1 152	n.y.a.	13.8	20.9	
	Seasonally adjusted	884	1 127	1 032	1 123	1 063	1 164	1 072	1 199	n.y.a.	11.8	21.0	
	Trend	1 034	1 041	1 055	1 078	1 102	1 122	1 139	1 145	n.y.a.	0.5	10.9	
M30	Plastics in primary forms ('000 tonnes)												
	Original	108	100	96	92	94	98	100	110	116	5.7	15.9	
	Seasonally adjusted	107	96	86	96	103	108	104	105	115	9.1	15.0	
	Trend	94	94	95	98	100	103	106	109	112	2.3	8.5	
M31	Rigid PVC tubes, pipes and hoses(e) (tonnes)												
	Original	8 944	6 847	7 186	7 653	5 993	4 407	8 219	7 853	9 433	20.1	24.1	
	Seasonally adjusted	8 392	7 233	7 281	7 496	6 445	7 316	7 765	7 404	11 196	51.2	28.6	
	Trend	7 868	7 585	7 281	7 082	7 115	7 406	7 885	8 474	9 073	7.1	8.0	
M32	Polyethylene bottles up to two litres (million)												
	Original	147	158	161	189	198	163	171	180	164	-8.7	20.4	
	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.....		
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	prev. month	same month prev. year
M33	Paint ('000 litres)											
	Original	15 662	15 649	18 331	19 014	15 522	15 667	16 021	15 416	16 280	5.6	16.7
	Seasonally adjusted	15 281	15 525	17 103	17 303	16 027	17 879	16 274	14 995	17 769	18.5	16.2
	Trend	15 590	16 017	16 418	16 679	16 774	16 724	16 636	16 580	16 505	-0.4	4.6
M34	Superphosphates ('000 tonnes)											
	Original	45	103	187	173	n.p.	n.p.	151	140	144	2.2	-7.7
	Seasonally adjusted	96	193	178	136	n.p.	n.p.	117	100	122	21.7	-8.6
	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	582	561	566	586	r547	417	504	590	579	-1.9	17.8
	Seasonally adjusted	529	562	537	529	r580	552	543	591	611	3.3	14.6
	Trend	537	541	544	547	552	560	570	580	591	2.0	9.4
M36	Clay bricks (million)											
	Original	128	126	137	122	110	91	116	123	129	5.4	11.0
	Seasonally adjusted	119	125	126	120	120	133	121	123	123	0.6	4.8
	Trend	120	121	123	124	124	124	124	124	124	-0.1	8.8
M37	Ready mixed concrete ('000 m³)											
	Original	1 320	1 272	1 438	1 404	1 103	1 002	1 203	1 290	1 380	7.0	25.0
	Seasonally adjusted	1 214	1 280	1 286	1 335	1 278	1 246	1 273	1 384	1 341	-3.1	13.2
	Trend	1 241	1 263	1 278	1 285	1 290	1 297	1 307	1 319	1 333	1.0	10.7
M38	Basic iron, spiegeleisen and sponge iron(c) ('000 tonnes)											
	Original	627	611	578	544	612	580	548	677	670	-1.0	9.1
	Seasonally adjusted	604	598	561	534	623	585	603	680	684	0.7	10.2
	Trend	607	592	578	575	584	603	626	648	670	3.4	5.6
M39	Blooms and slabs of iron or steel(c) ('000 tonnes)											
	Original	666	633	626	590	661	631	590	728	696	-4.4	8.4
	Seasonally adjusted	648	611	593	581	665	625	638	739	713	-3.6	8.1
	Trend	641	624	612	611	624	645	669	691	711	2.9	5.9
M40	Insulated wire (tonnes)											
	Original	6 426	5 801	6 143	7 160	6 252	4 025	5 597	r6 484	6 357	-2.0	16.5
	Seasonally adjusted	6 191	5 264	5 490	6 593	7 666	6 767	5 366	r5 783	6 707	16.0	17.0
	Trend	5 934	6 036	6 181	6 330	6 431	6 442	6 374	6 292	6 191	-1.6	2.3
M41	Cars and station wagons (no.)											
	Original	25 747	28 863	29 916	26 149	19 124	15 828	23 717	24 621	25 024	1.6	10.6
	Seasonally adjusted	22 334	26 777	25 848	24 109	23 351	31 783	24 062	25 698	26 621	3.6	2.7
	Trend	25 243	25 149	25 257	25 536	25 876	26 164	26 324	26 359	26 467	0.4	2.1
M42	Vehicles for goods and materials (no.)											
	Original	2 714	2 465	2 397	2 227	1 677	1 432	2 122	2 175	2 095	-3.7	-3.4
	Seasonally adjusted	2 437	2 432	2 002	2 090	2 145	2 859	2 198	2 185	1 968	-10.0	-13.8
	Trend	2 386	2 315	2 271	2 263	2 278	2 292	2 278	2 238	2 199	-1.7	-5.1
M43	Telephones ('000)											
	Original	119	120	115	123	84	n.p.	n.p.	n.p.	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	29 593	37 143	40 414	35 942	31 257	35 171	33 657	32 555	26 895	-17.4	31.6
	Seasonally adjusted	31 683	40 168	34 102	32 567	32 668	32 643	32 661	32 341	28 586	-11.6	18.7
	Trend	35 579	35 692	35 072	34 117	33 265	32 519	31 812	31 051	30 703	-1.1	-0.7
M45	Water heaters (no.)											
	Original	55 840	50 761	61 774	56 240	39 683	20 348	49 161	r53 757	55 058	2.4	42.4
	Seasonally adjusted	50 901	47 641	54 153	51 776	42 799	43 914	50 406	r49 888	66 849	34.0	43.4
	Trend	51 936	51 201	49 592	48 075	47 553	48 387	50 354	53 080	55 855	5.2	17.7
M46	Domestic clothes washing machines (no.)											
	Original	26 685	21 682	24 860	22 056	15 492	8 093	20 726	24 505	22 959	-6.3	50.0
	Seasonally adjusted	21 813	19 629	21 854	19 924	18 235	15 856	21 340	28 094	22 827	-18.7	30.9
	Trend	23 657	22 027	20 209	19 156	19 275	20 141	21 306	22 575	23 692	4.9	5.7
M47	Electric motors ('000)											
	Original	254	214	248	249	201	168	219	225	238	5.9	29.2
	Seasonally adjusted	242	203	214	231	236	256	208	240	241	0.5	16.3
	Trend	223	223	224	227	230	233	235	237	238	0.1	7.2

For footnotes see page 23.

1

MONTHLY PRODUCTION *continued*

No.	Item and unit/Series(a)	1996..								1997.....		Percentage changes between latest month shown and.....	
		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	prev. month	same month prev. year	
M48	Electricity (million kWh)												
	Original	14 668	13 730	13 733	13 460	13 569	13 811	13 421	r13 734	13 484	-1.8	1.1	
	Seasonally adjusted	13 602	13 911	13 770	14 046	13 969	13 976	14 519	r14 426	13 677	-5.2	-3.5	
	Trend	13 852	13 831	13 871	13 956	14 053	14 132	14 171	14 172	14 156	-0.1	0.7	
M49	Gas (terajoules)												
	Original	62 709	55 103	50 582	r48 590	47 218	46 011	42 818	46 489	48 919	5.2	—	
	Seasonally adjusted	52 420	50 874	49 609	r52 433	55 426	57 643	53 032	51 683	52 139	0.9	-1.1	
	Trend	51 264	51 627	52 334	53 121	53 737	54 063	53 977	53 607	53 110	-0.9	2.1	

(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 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)	1995.....			1996.....			1997...			Percentage changes between latest quarter shown and....	
		Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	prev. quarter	same quarter prev. year
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	r177	479	171.3	33.2
	Seasonally adjusted	510	414	275	261	288	429	271	r228	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	884	1 202	1 132	697	674	1 511	r1 560	871	-44.2	24.9
	Seasonally adjusted	1 009	1 076	935	1 017	874	835	1 177	r1 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	r951	840	r800	r835	r1 235	1 053	n.y.a.	-14.7	25.4
	Seasonally adjusted	940	907	r904	850	r850	r820	r1 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
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	3 337	n.y.a.	0.1	1.2
	Seasonally adjusted	3 232	3 308	3 307	3 302	3 337	3 345	3 293	3 344	n.y.a.	1.6	1.3
	Trend	3 245	3 284	3 307	3 321	3 326	3 328	3 325	3 324	n.y.a.	—	0.1
Q9	Zinc(b) ('000 tonnes)											
	Original	72	81	82	85	81	82	82	81	n.y.a.	-1.2	-4.7
	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	n.y.a.	-0.1	-4.0
Q10	Silver(b) (tonnes)											
	Original	93	89	89	75	90	97	84	85	n.y.a.	1.2	13.3
	Seasonally adjusted	95	83	89	80	91	90	84	91	n.y.a.	9.0	13.8
	Trend	88	87	85	85	87	88	89	88	n.y.a.	-0.2	3.4
Q11	Copper(b) ('000 tonnes)											
	Original	71	55	78	63	68	83	82	81	n.y.a.	-1.2	28.6
	Seasonally adjusted	75	56	71	64	72	84	75	83	n.y.a.	11.0	29.0
	Trend	68	65	64	68	74	77	80	81	n.y.a.	1.2	19.6
Q12	Lead(b) ('000 tonnes)											
	Original	53	49	57	56	54	56	44	50	n.y.a.	13.6	-10.7
	Seasonally adjusted	59	46	56	55	59	53	44	49	n.y.a.	12.2	-10.7
	Trend	54	53	54	56	56	52	48	47	n.y.a.	-3.6	-17.4
Q13	Tin(b) (tonnes)											
	Original	180	65	165	160	90	135	100	135	n.y.a.	35.0	-15.6
	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	107	116	130	n.y.a.	11.5	-10.7
Q14	Gold(b) (tonnes)											
	Original	74	74	75	75	85	83	81	81	n.y.a.	0.2	7.6
	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	81	81	n.y.a.	-0.1	3.4

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 electricity production.

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

The percentage change of 1% was chosen because it currently represents the average absolute monthly percentage change for this series over the last thirty years.

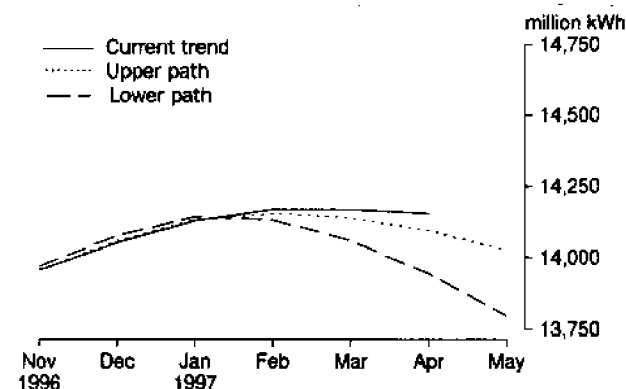
M48 ELECTRICITY (million kWh)

WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:

		1	2	3	4
	TREND as PUBLISHED	13 677 <i>i.e. the same as Apr 1997</i>	13 878 <i>i.e. rises by 1%</i>	13 476 <i>i.e. falls by 1%</i>	14 430 <i>i.e. same trend for Apr and May</i>
1997					
February	14 171	14 146	14 155	14 137	14 180
March	14 172	14 099	14 129	14 069	14 211
April	14 156	14 020	14 076	13 964	14 230
May (new)	—	13 913	13 998	13 828	14 230

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 ELECTRICITY



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

- *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.

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.

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.

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