



January 1997

EMBARGO: 11:30 AM (CANBERRA TIME) WED 5 MAR 1997

Manufacturing Production

Australia

Statistics ■

1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99	2.00
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NOTES

FORTHCOMING ISSUES

<i>ISSUE</i>	<i>RELEASE DATE</i>
February 1997	4 April 1997
March 1997	2 May 1997
April 1997	2 June 1997

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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 and seasonally adjusted estimates of production (and their average movements) for the series M2 Chicken meat have been revised, as a result of new seasonal factors being calculated (please refer to paragraphs 11 to 14 of the Explanatory notes, on page 27).

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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.

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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

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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 (02) 9268 4541.

W. McLennan
Australian Statistician

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KEY POINTS

GENERAL TRENDS

Latest trends indicate that of the 58 indicators available, 24 showed rising production trends, 20 showed falling trends while 14 were relatively stable.

PUBLISHED PRODUCTION TREND.....				
	Indicators available	Rising	Falling	Stable
November 1996 issue	58	18	26	14
December 1996 issue	58	22	24	12
January 1997 issue	58	24	20	14

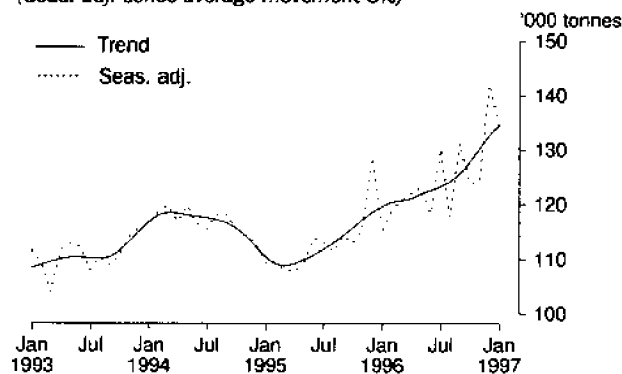
SERIES TRENDS

Two of the more notable trends were production of flour of wheat or of meslin and ready mixed concrete. Production of flour of wheat or of meslin rose again, this series having experienced growth since a low in March 1995. This trend growth will continue in February 1997 unless there is a fall in the seasonally adjusted series of over 10% (the average movement for this series is 3%).

Ready mixed concrete production for January 1997 was stable (falling slightly, by 0.2%). This reversed a trend which had been rising since a low in May 1996. The trend will continue to fall in February 1997 unless the seasonally adjusted series rises by over 4% (the average movement for this series is 4%).

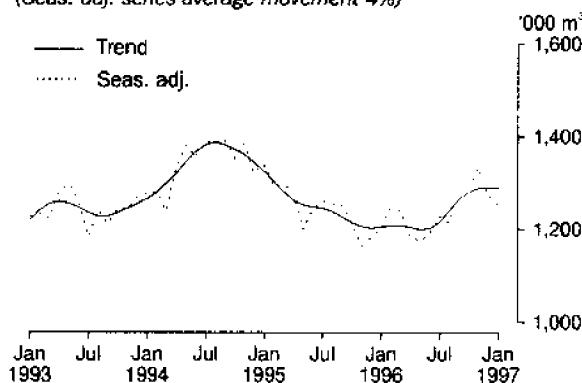
M5 FLOUR OF WHEAT OR OF MESLIN

(Seas. adj. series average movement 3%)



M37 READY MIXED CONCRETE

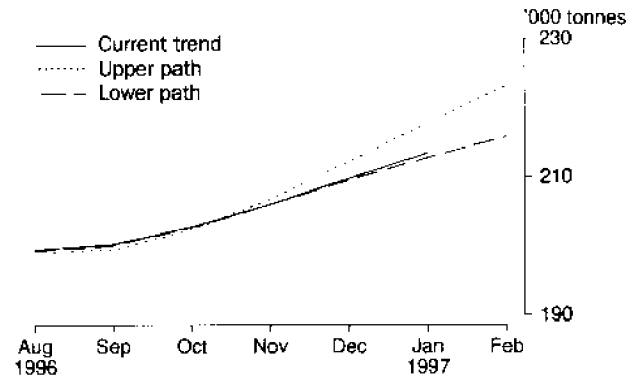
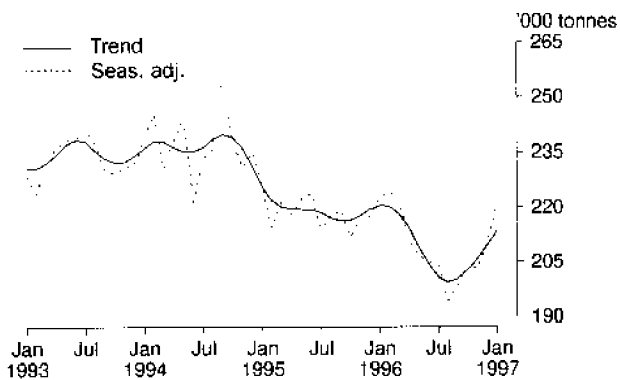
(Seas. adj. series average movement 4%)



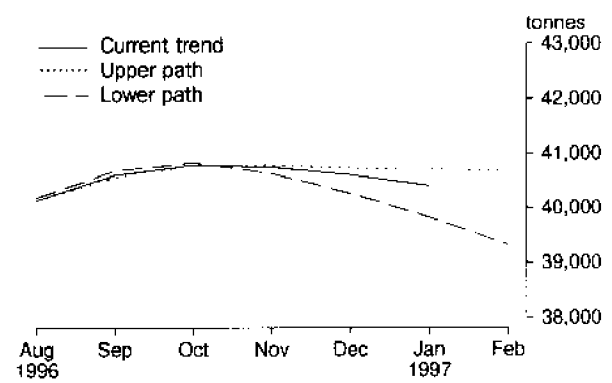
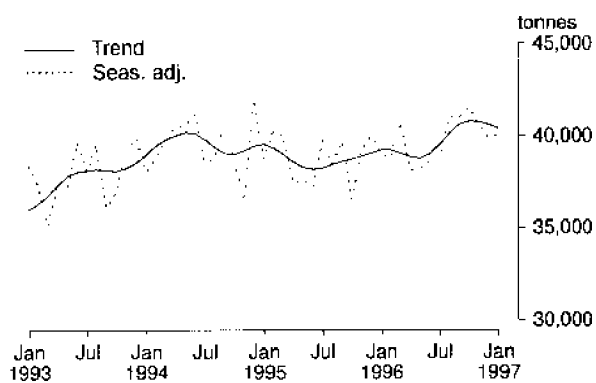
Longer term trend(a)

Short-term sensitivity analysis

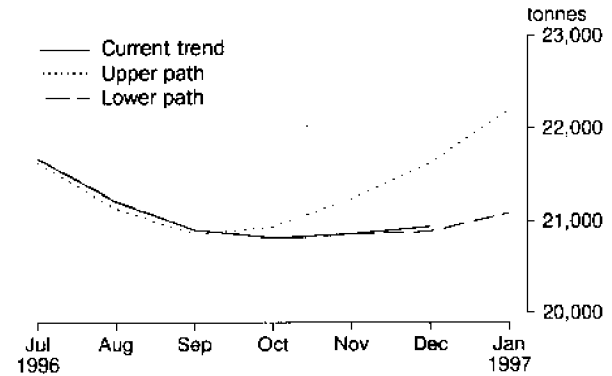
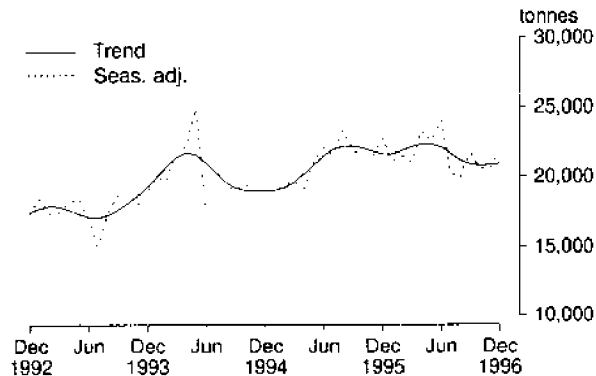
M1 RED MEAT (seasonally adjusted series average movement 4%)



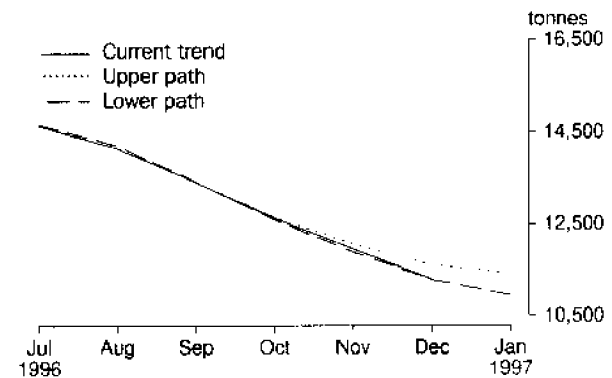
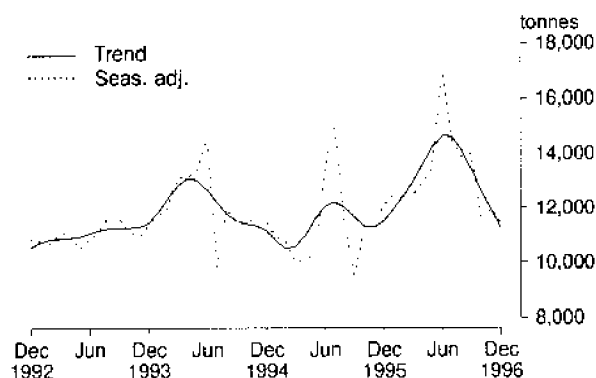
M2 CHICKEN MEAT (seasonally adjusted series average movement 4%)



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



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

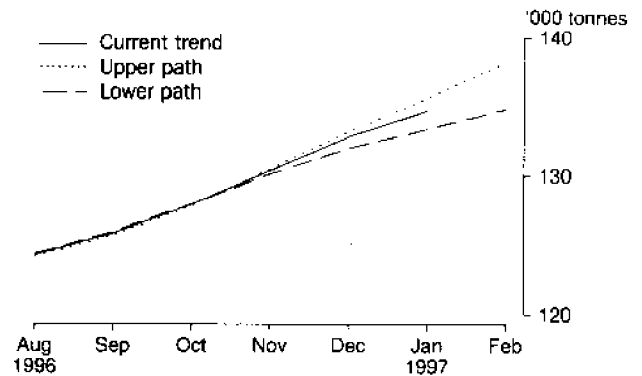
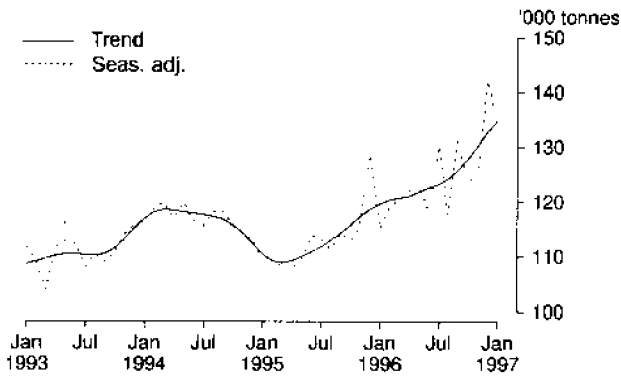


For footnotes see page 23.

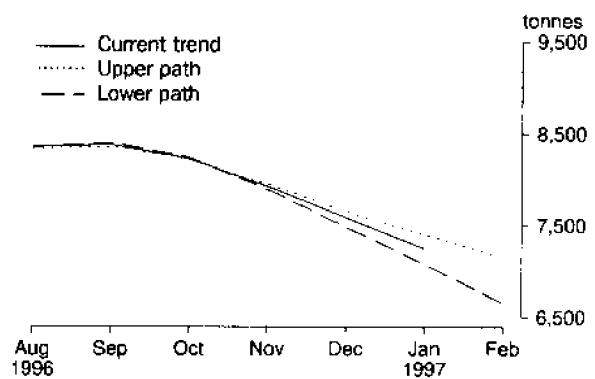
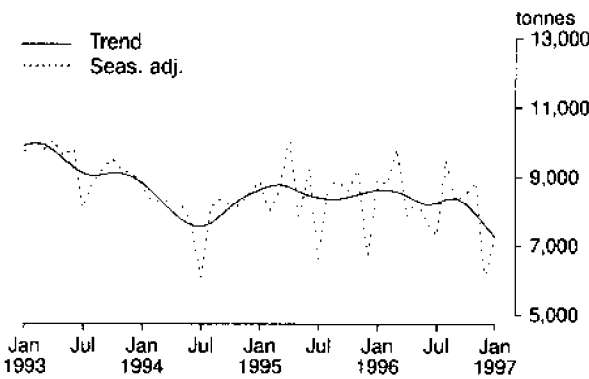
Longer term trend (a)

Short-term sensitivity analysis

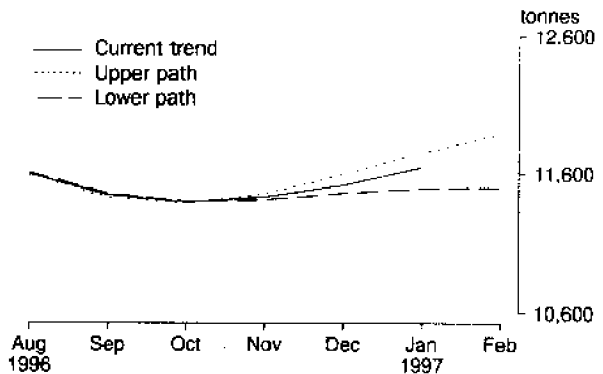
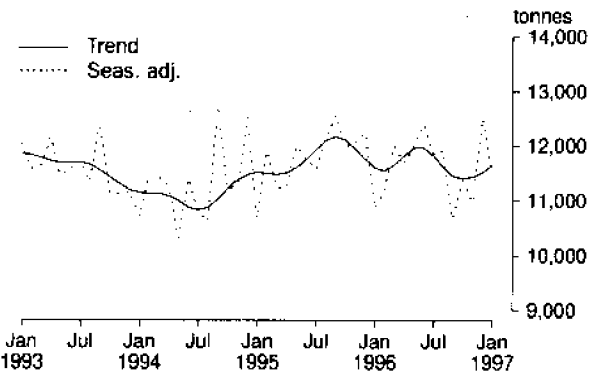
M5 FLOUR OF WHEAT OR OF MESLIN (seasonally adjusted series average movement 3%)



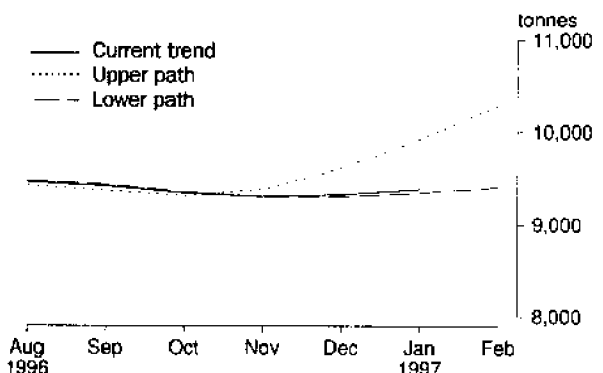
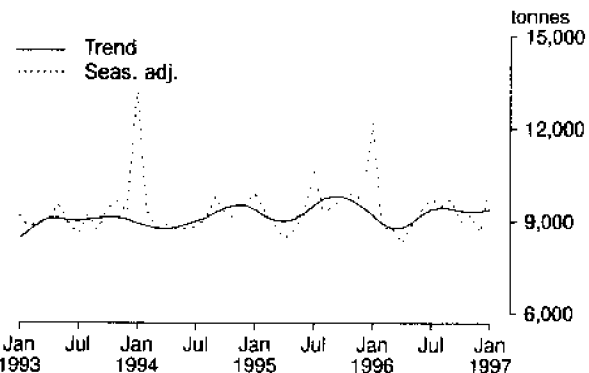
M6 PREPARED FOODS FROM CEREALS (seasonally adjusted series average movement 8%)



M7 BISCUITS (seasonally adjusted series average movement 4%)



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



For footnotes see page 23.

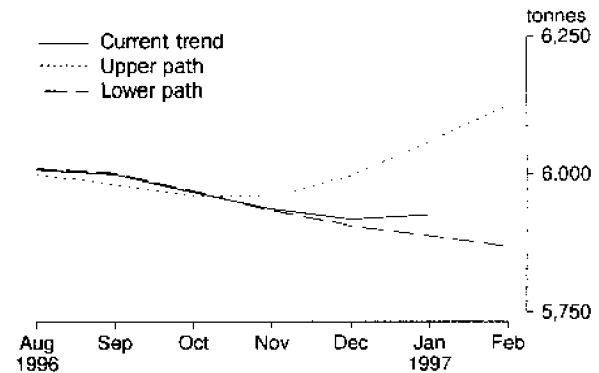
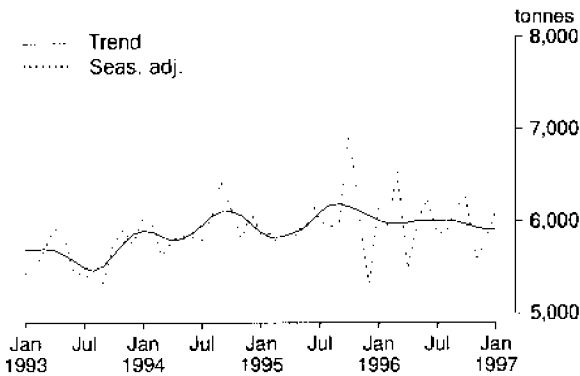
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MONTHLY PRODUCTION *continued*

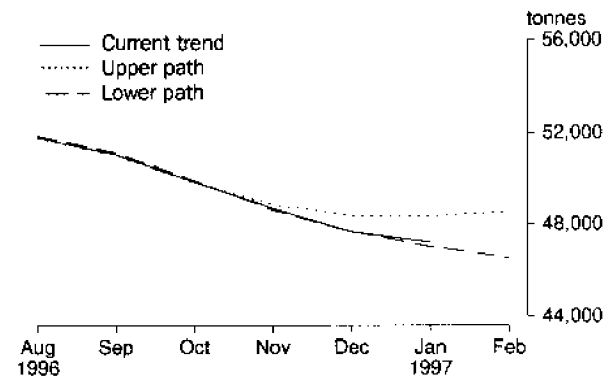
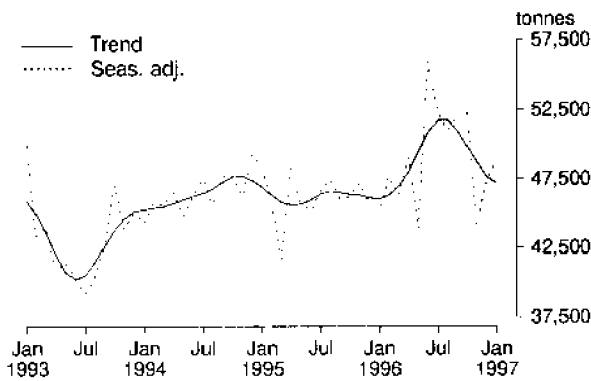
Longer term trend (a)

Short-term sensitivity analysis

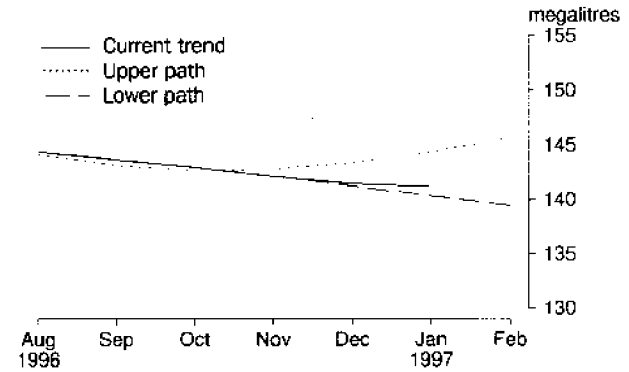
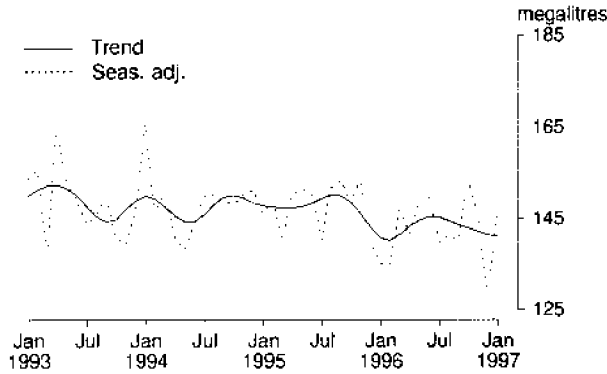
M9 OTHER CONFECTIONERY (seasonally adjusted series average movement 5%)



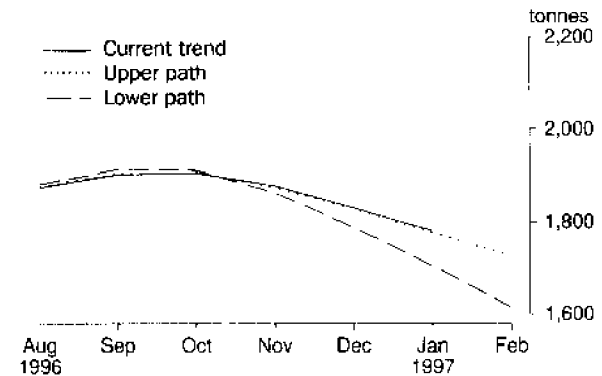
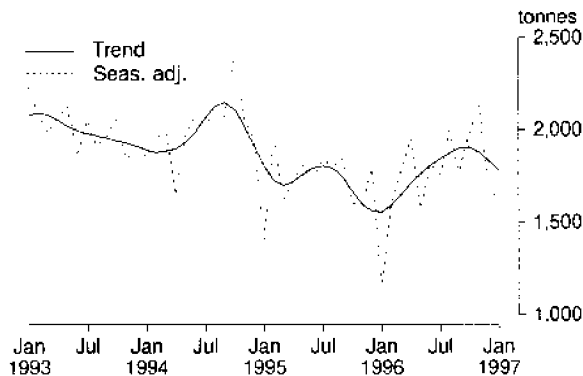
M10 MALT (seasonally adjusted series average movement 5%)



M11 BEER (seasonally adjusted series average movement 5%)



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

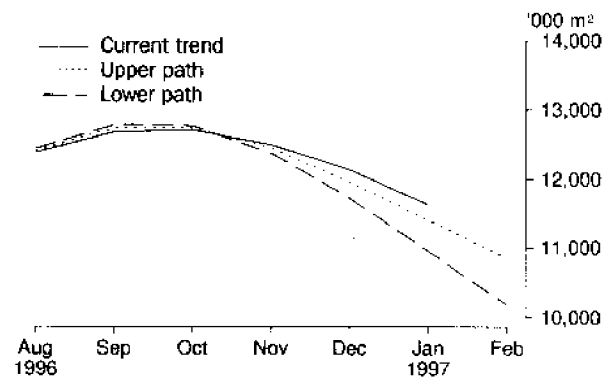
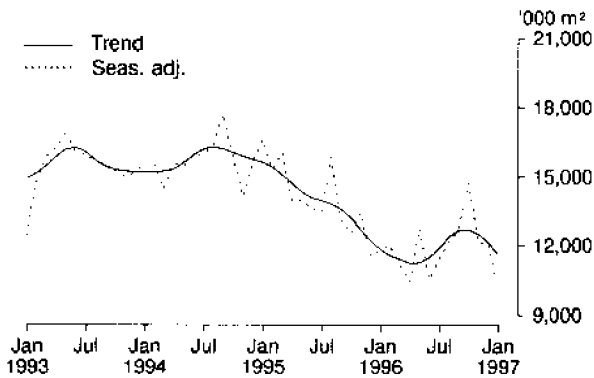


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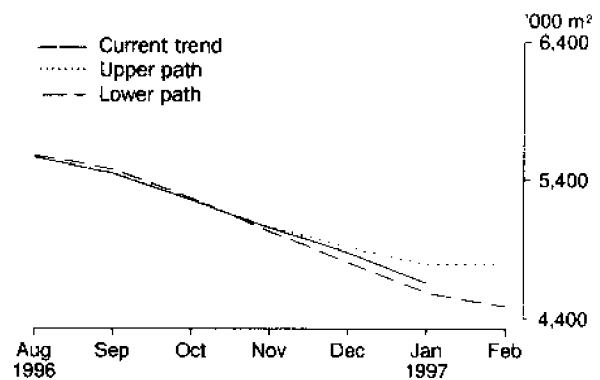
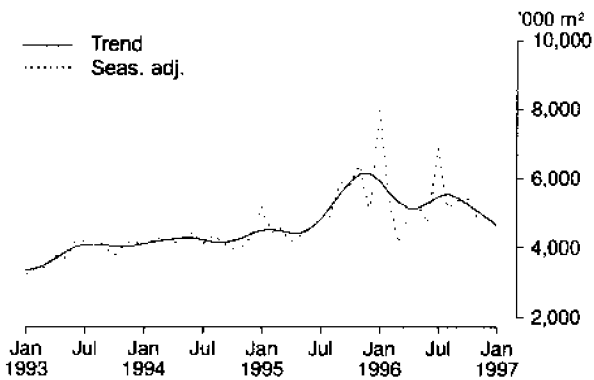
Longer term trend (a)

Short-term sensitivity analysis

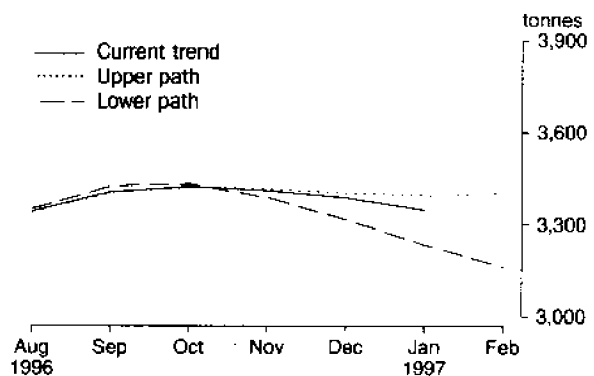
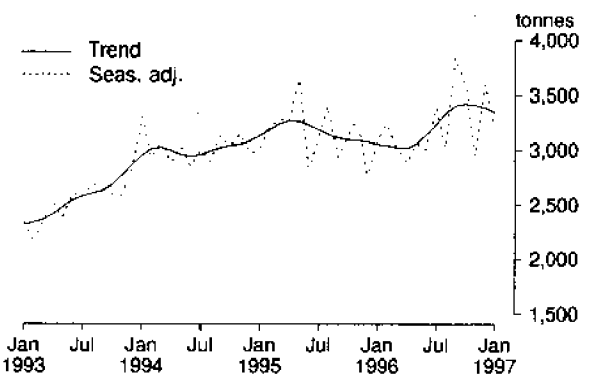
M13 MAN-MADE FIBRE WOVEN FABRIC (seasonally adjusted series average movement 8%)



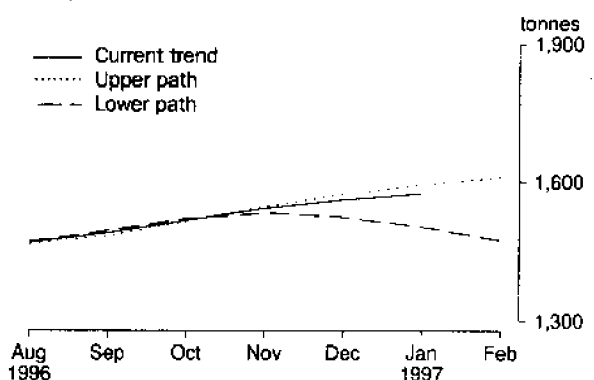
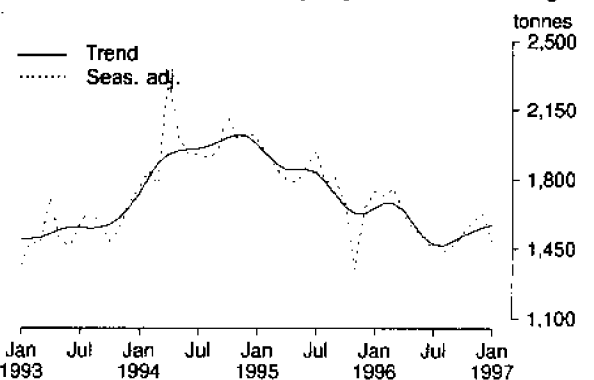
M14 COTTON WOVEN FABRIC (seasonally adjusted series average movement 9%)



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



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



For footnotes see page 23.

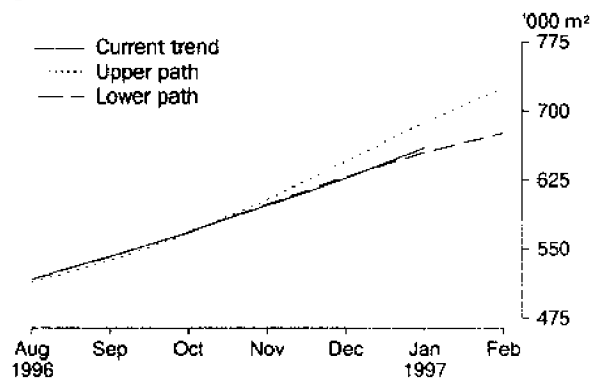
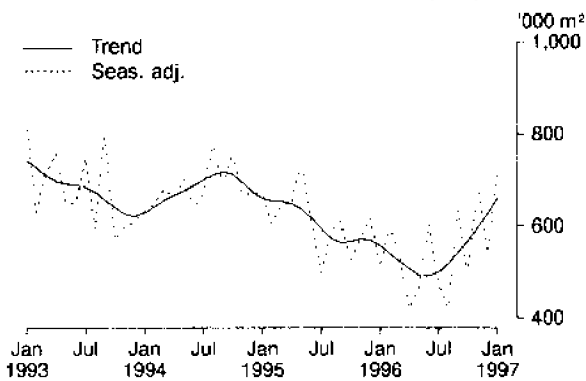
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MONTHLY PRODUCTION *continued*

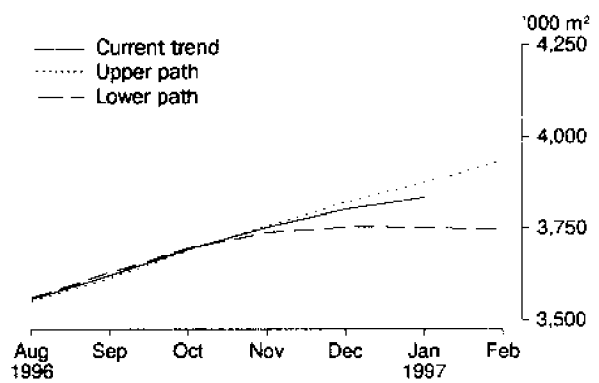
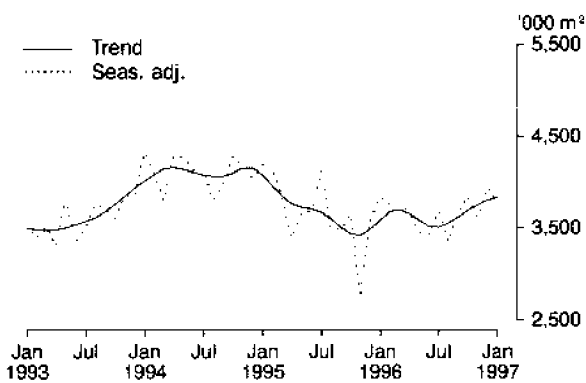
Longer term trend (a)

Short-term sensitivity analysis

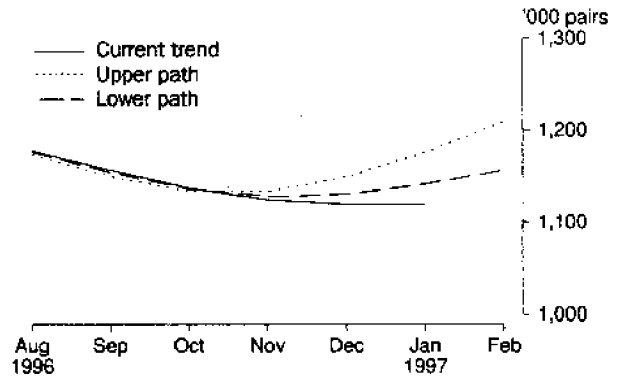
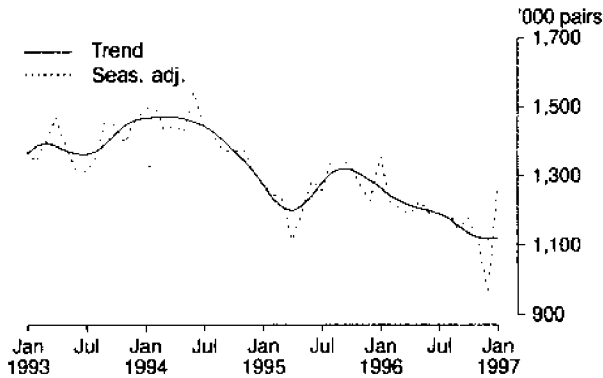
M17 WOOL WOVEN FABRIC (seasonally adjusted series average movement 8%)



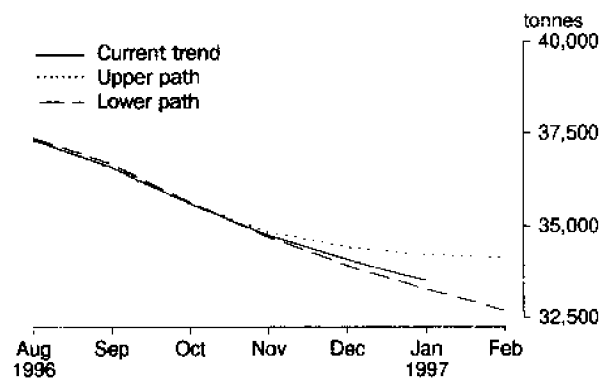
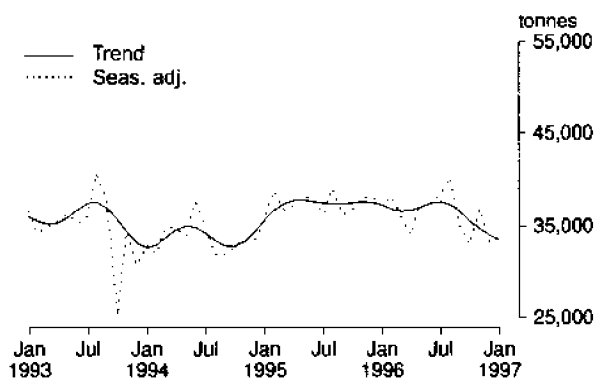
M18 TEXTILE FLOOR COVERINGS (seasonally adjusted series average movement 6%)



M19 FOOTWEAR (seasonally adjusted series average movement 4%)



M21 NEWSPRINT (seasonally adjusted series average movement 5%)

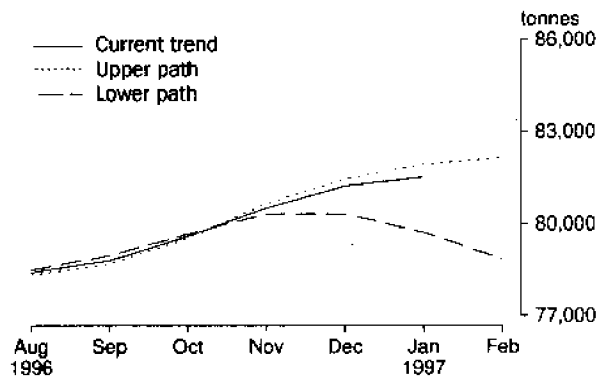
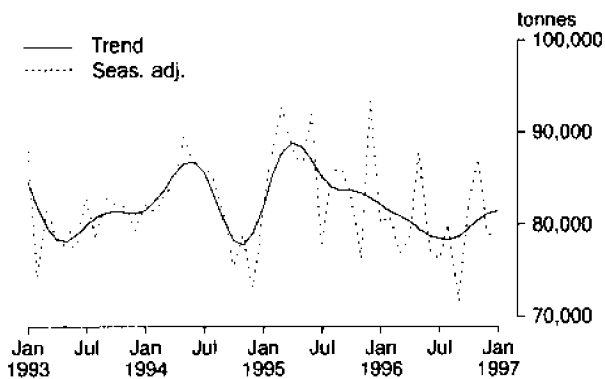


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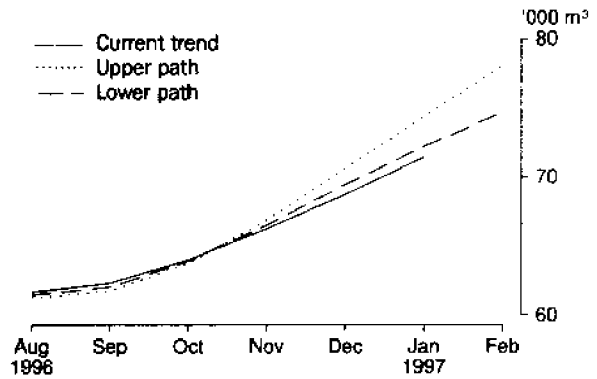
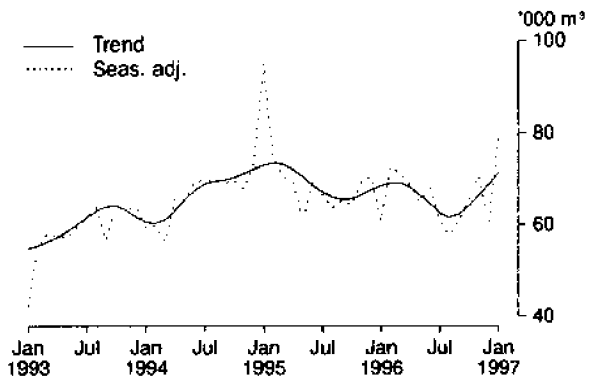
Longer term trend(a)

Short-term sensitivity analysis

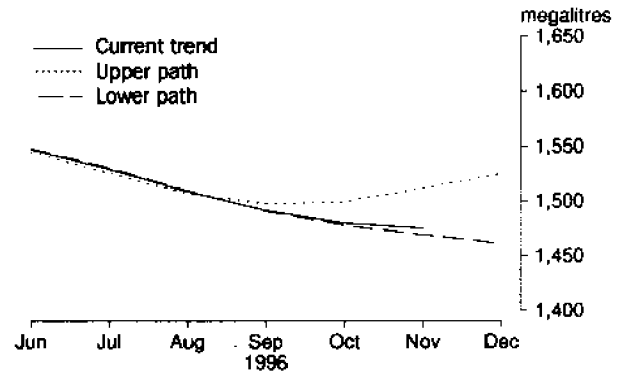
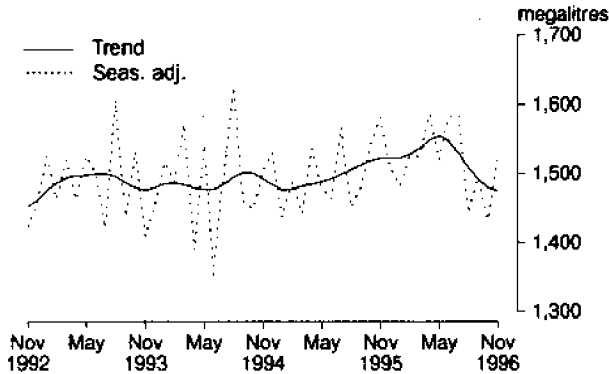
M22 WOOD PULP (seasonally adjusted series average movement 4%)



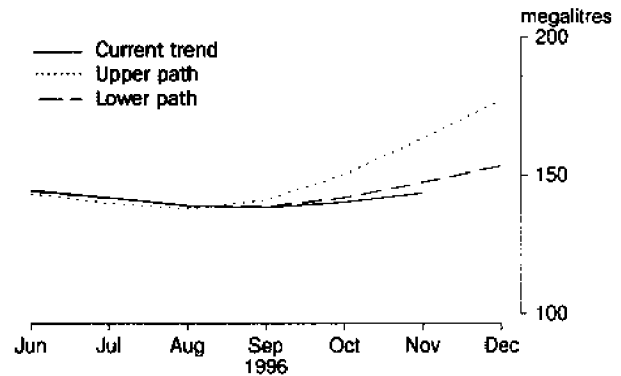
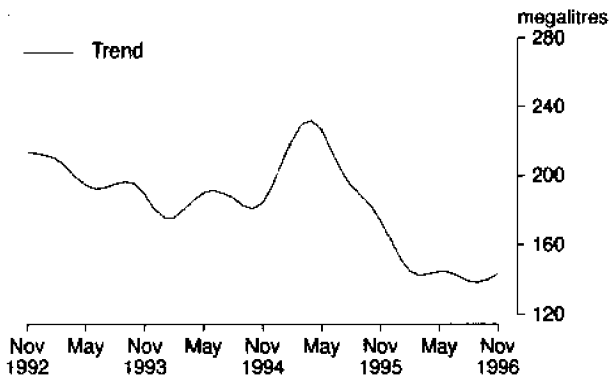
M23 UNLAMINATED PARTICLE BOARD (seasonally adjusted series average movement 5%)



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



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

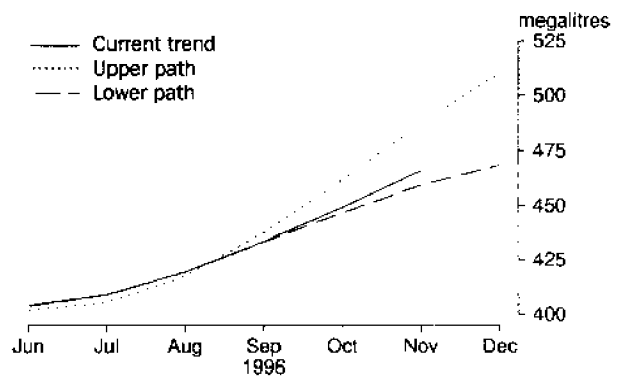
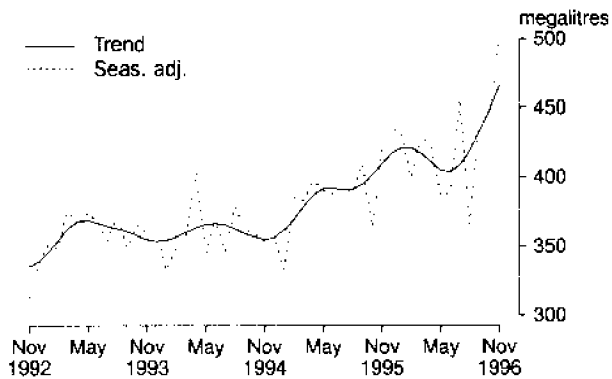


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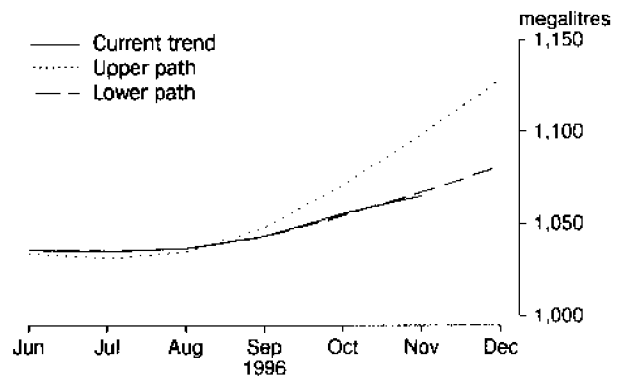
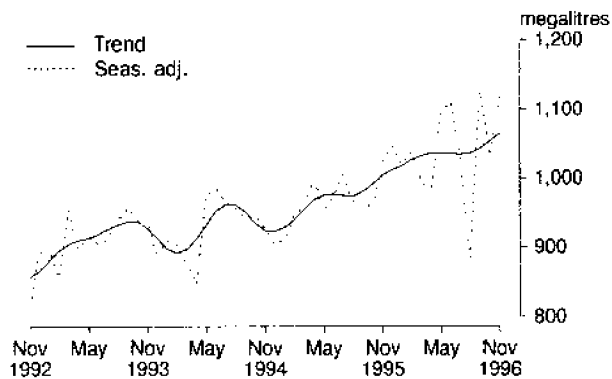
Longer term trend(a)

Short-term sensitivity analysis

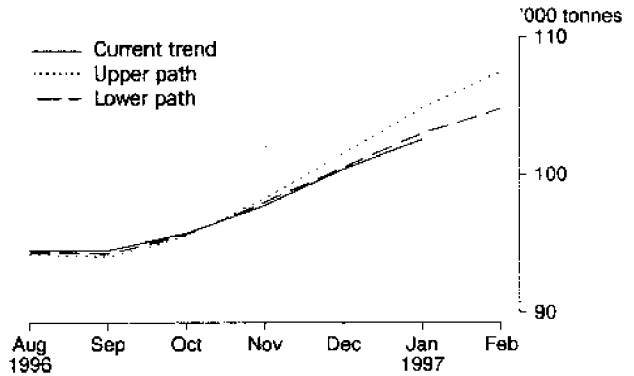
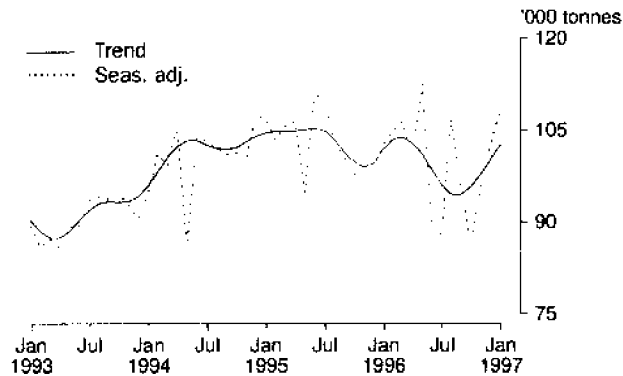
M28 AVIATION TURBINE FUEL(b) (seasonally adjusted series average movement 9%)



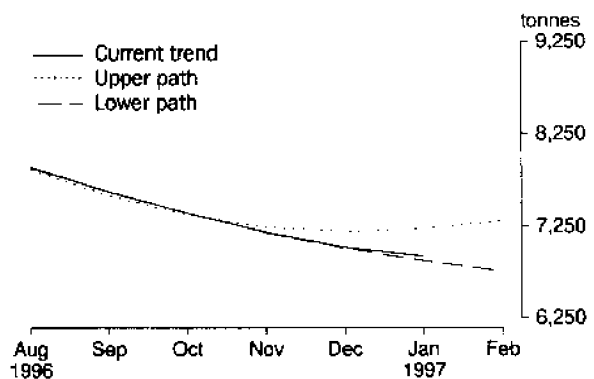
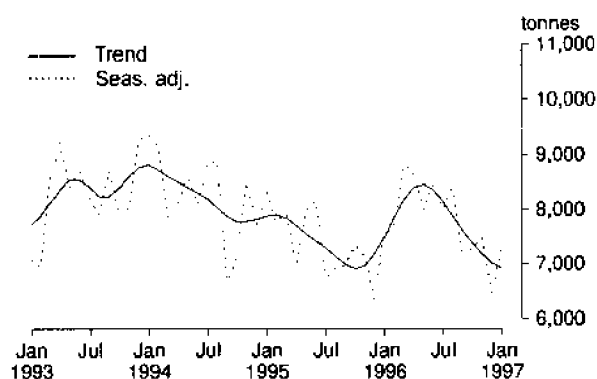
M29 AUTOMOTIVE DIESEL OIL(b) (seasonally adjusted series average movement 5%)



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



M31 RIGID PVC TUBES, PIPES AND HOSES (seasonally adjusted series average movement 9%)

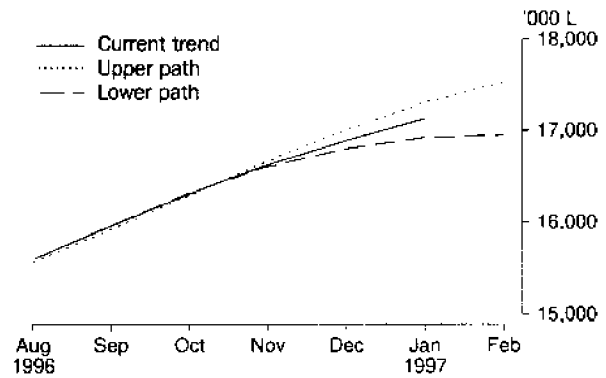
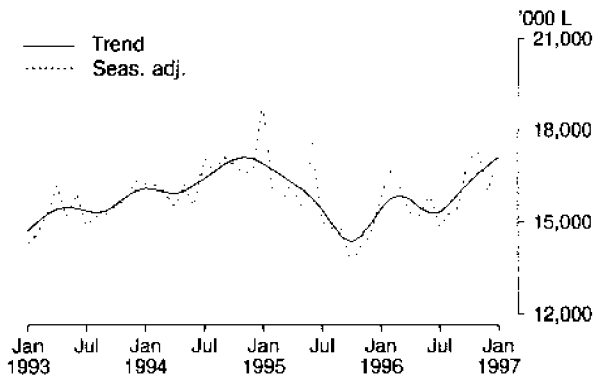


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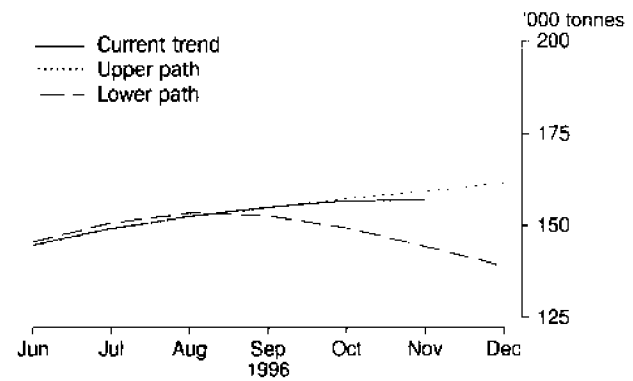
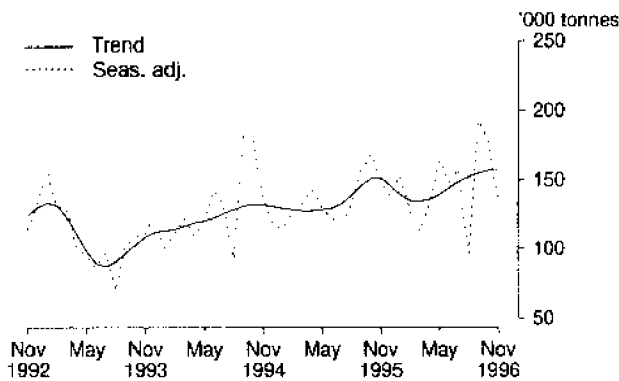
Longer term trend (a)

Short-term sensitivity analysis

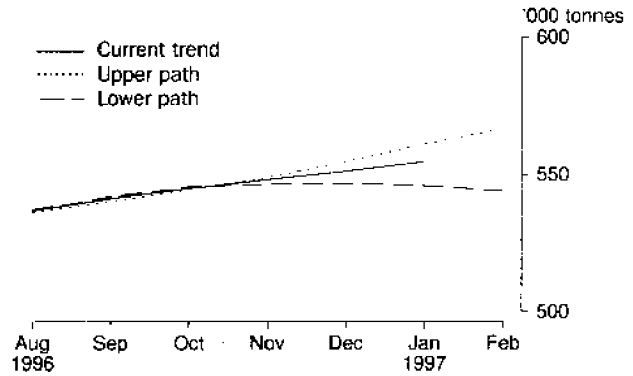
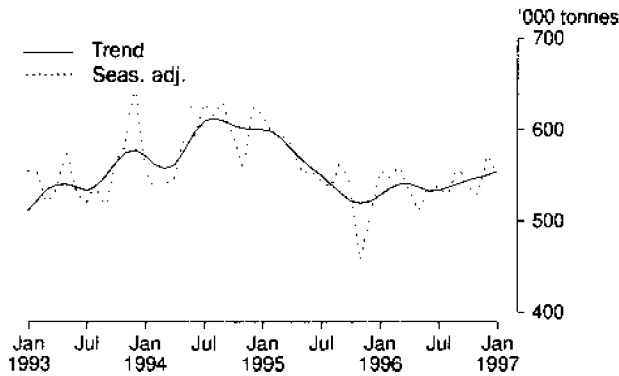
M33 PAINT (seasonally adjusted series average movement 4%)



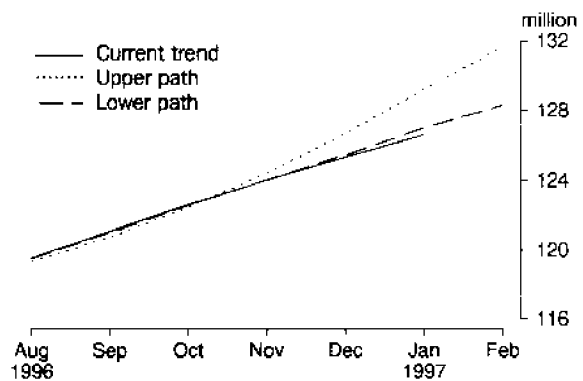
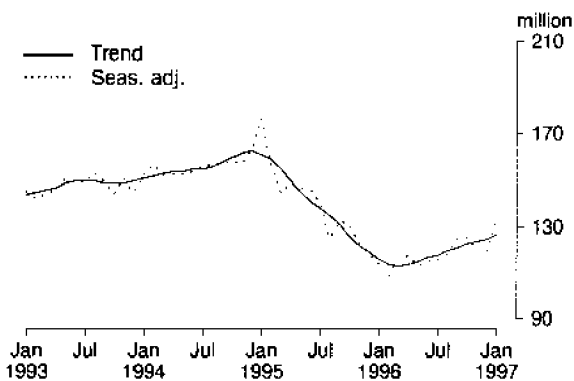
M34 SUPERPHOSPHATES (seasonally adjusted series average movement 15%)



M35 PORTLAND CEMENT (seasonally adjusted series average movement 5%)



M36 CLAY BRICKS (seasonally adjusted series average movement 3%)



For footnotes see page 23.

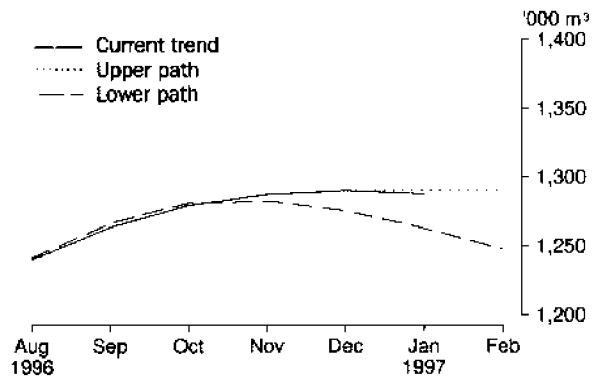
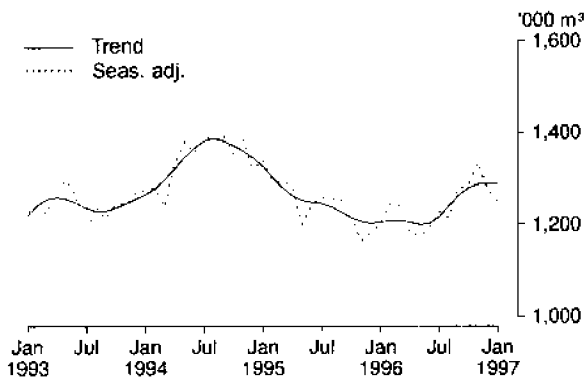
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MONTHLY PRODUCTION *continued*

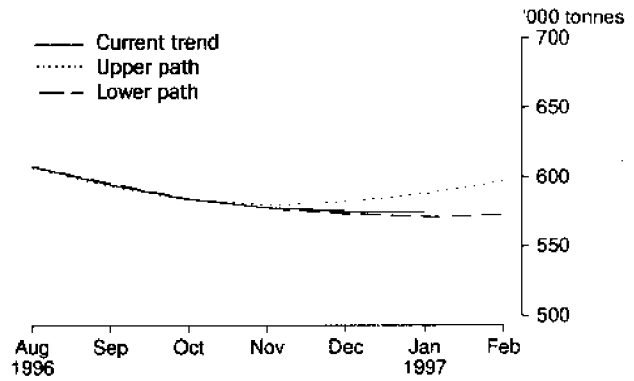
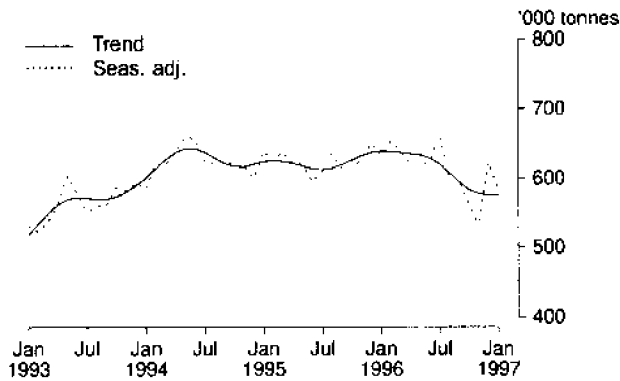
Longer term trend(a)

Short-term sensitivity analysis

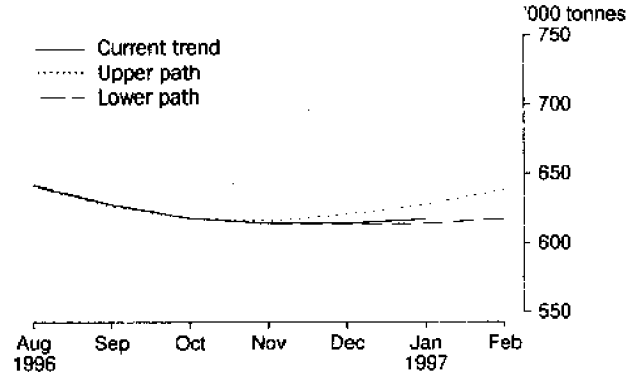
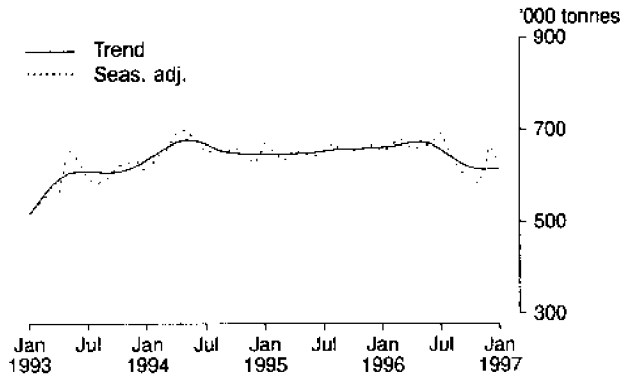
M37 READY MIXED CONCRETE (seasonally adjusted series average movement 4%)



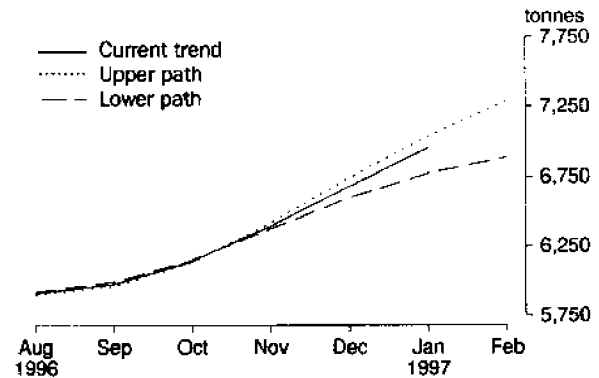
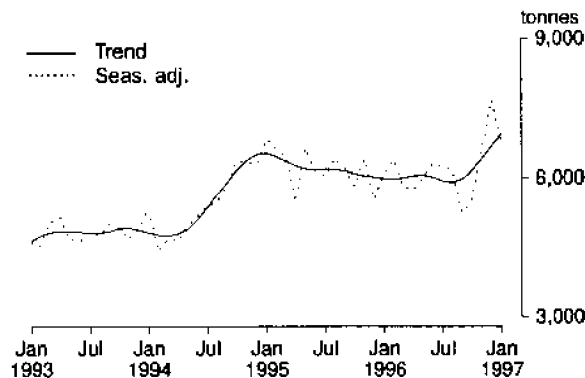
M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(c) (seasonally adjusted series average movement 5%)



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



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



For footnotes see page 23.

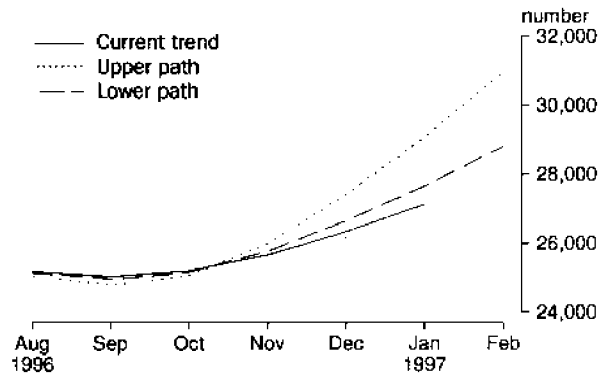
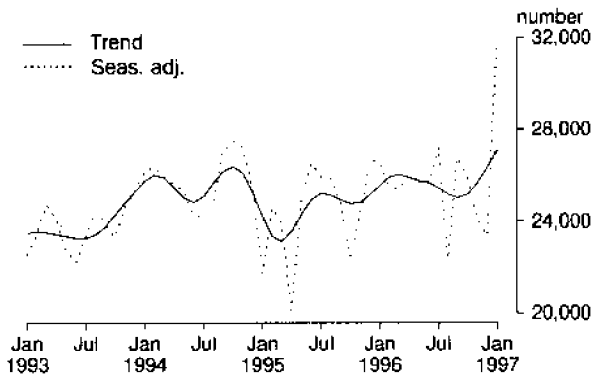
M

MONTHLY PRODUCTION *continued*

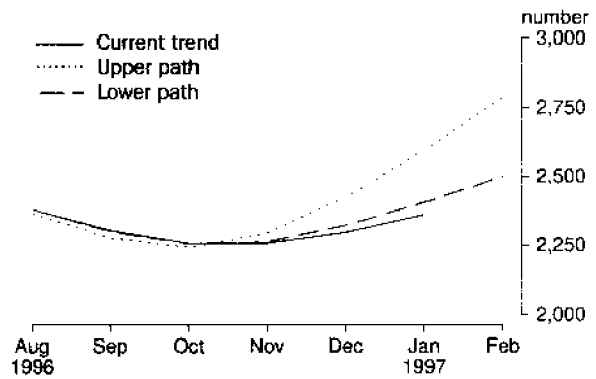
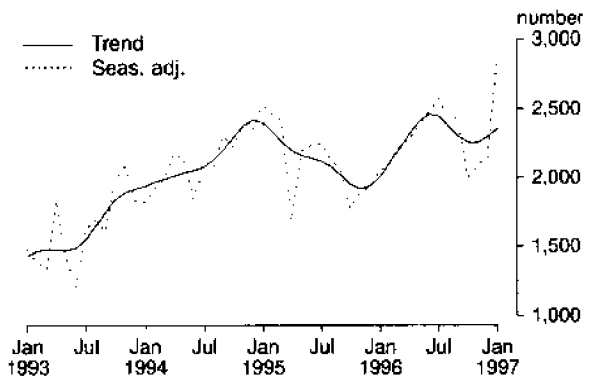
Longer term trend (a)

Short-term sensitivity analysis

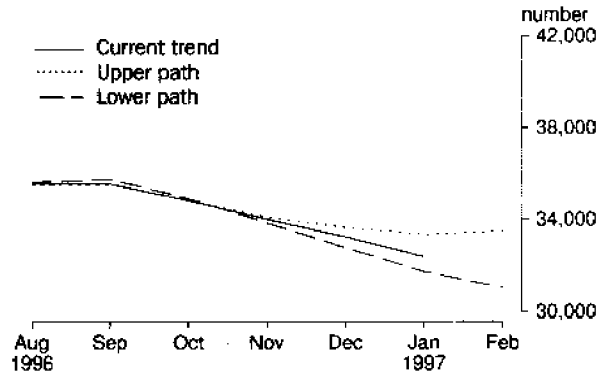
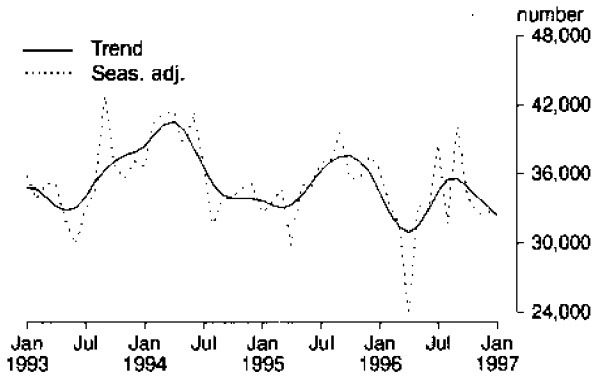
M41 CARS AND STATION WAGONS (seasonally adjusted series average movement 8%)



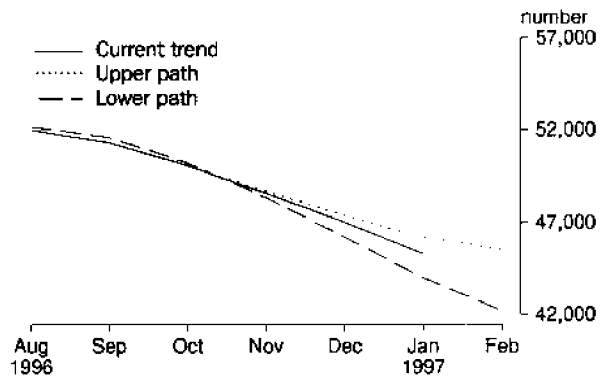
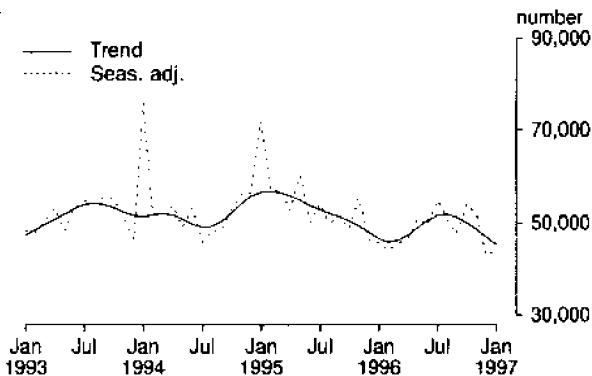
M42 VEHICLES FOR GOODS AND MATERIALS (seasonally adjusted series average movement 11%)



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



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



For footnotes see page 23.

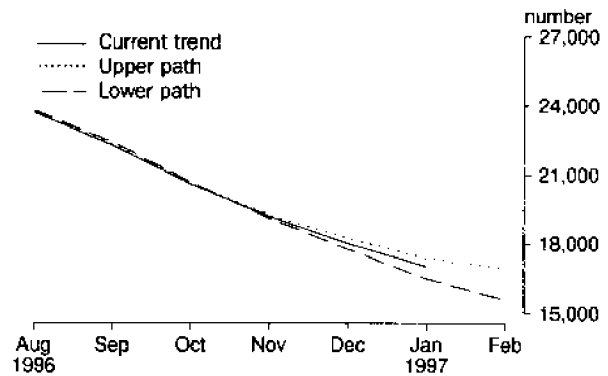
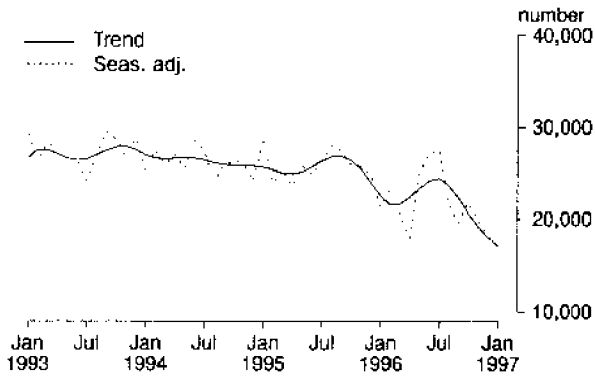
M

MONTHLY PRODUCTION *continued*

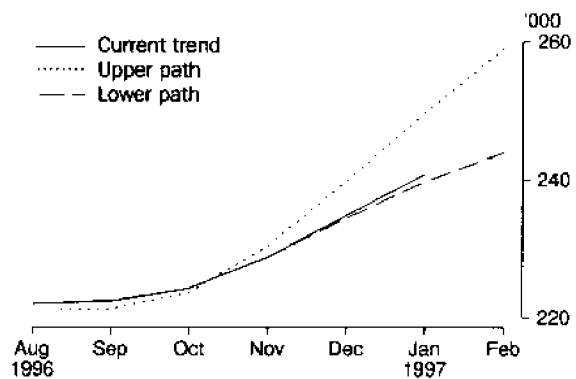
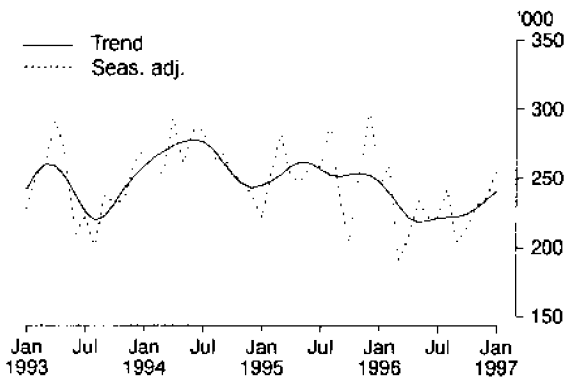
Longer term trend(a)

Short-term sensitivity analysis

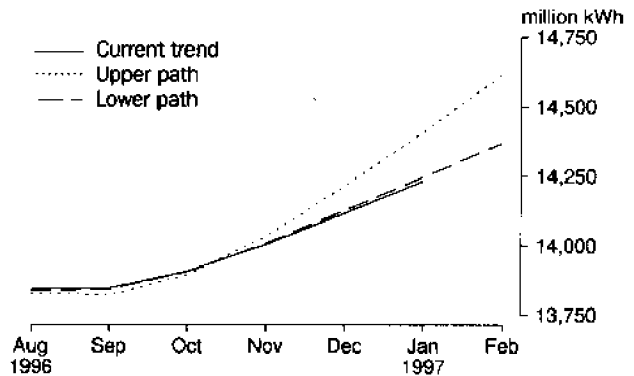
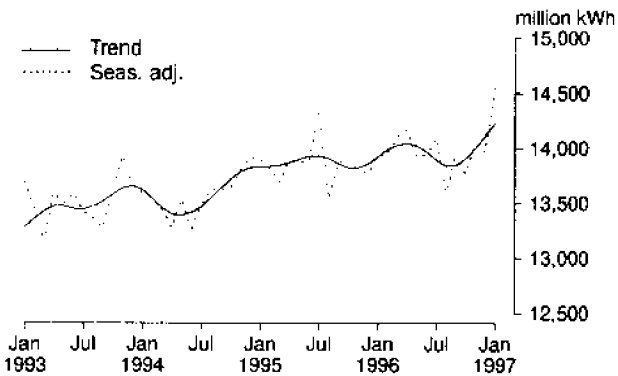
M46 DOMESTIC CLOTHES WASHING MACHINES *(seasonally adjusted series average movement 9%)*



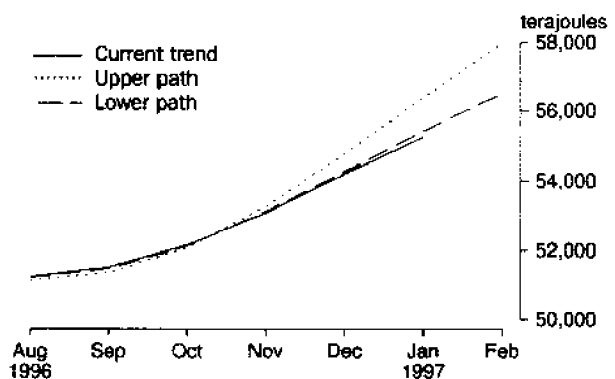
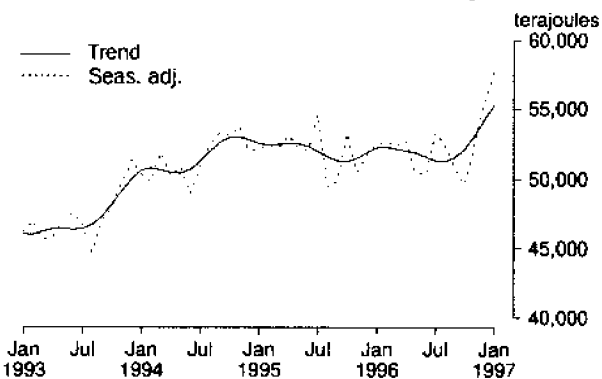
M47 ELECTRIC MOTORS *(seasonally adjusted series average movement 7%)*



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



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



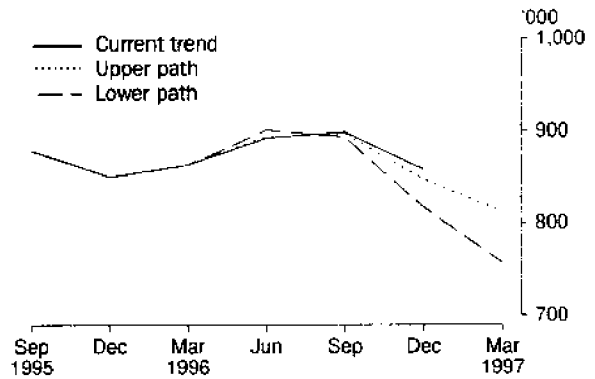
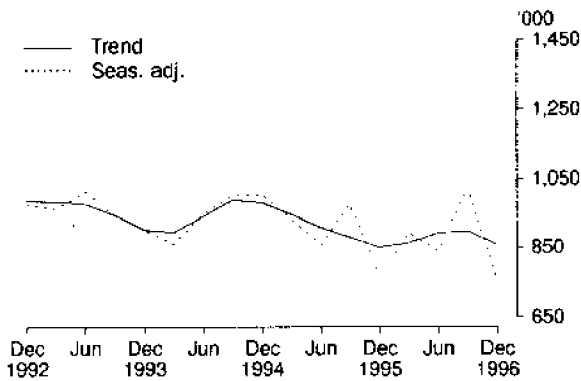
Q

QUARTERLY PRODUCTION

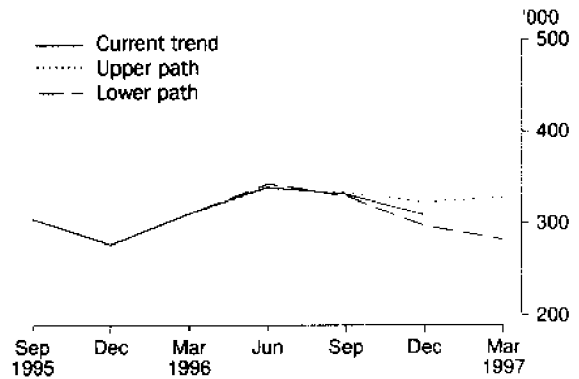
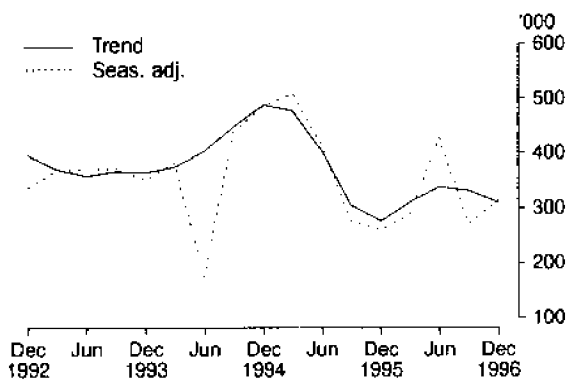
Longer term trend(a)

Short-term sensitivity analysis

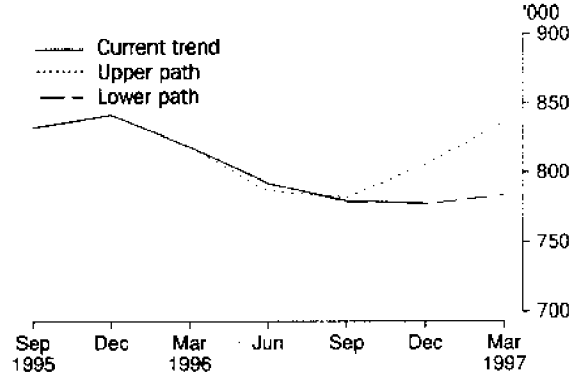
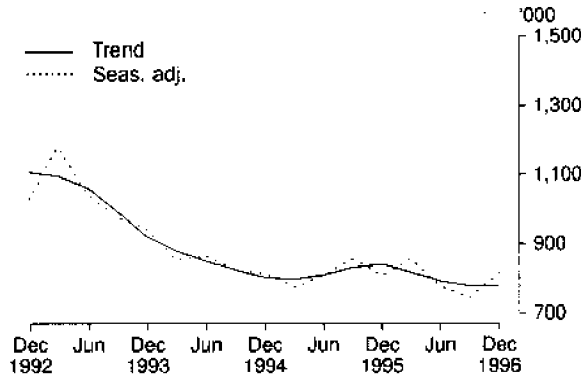
Q1 MEN'S AND BOYS' LONG TROUSERS (seasonally adjusted series average movement 7%)



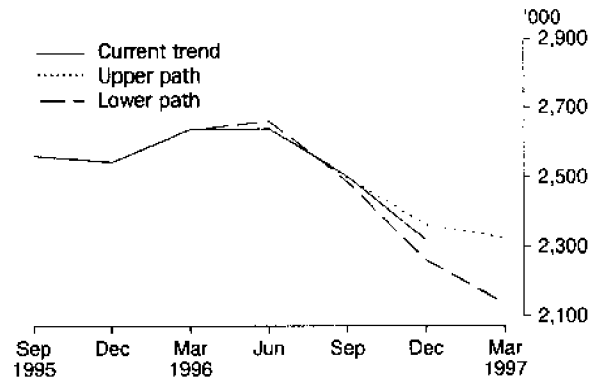
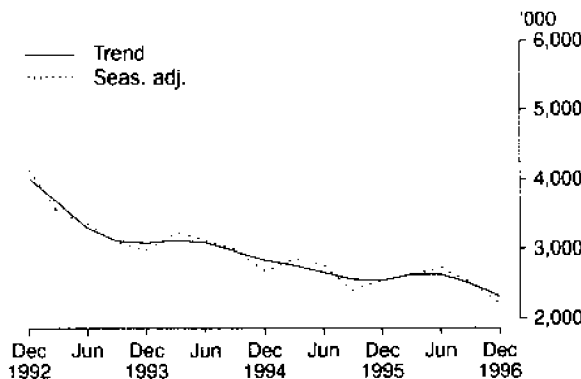
Q2 WOMEN'S AND GIRLS' LONG TROUSERS (seasonally adjusted series average movement 14%)



Q3 JEANS (seasonally adjusted series average movement 6%)



Q4 MEN'S AND BOYS' SHIRTS (seasonally adjusted series average movement 8%)



For footnotes see page 24.

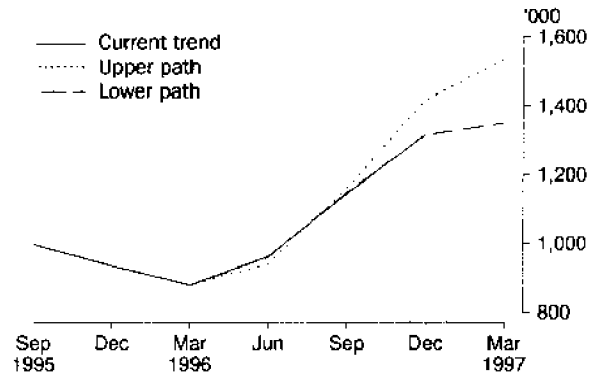
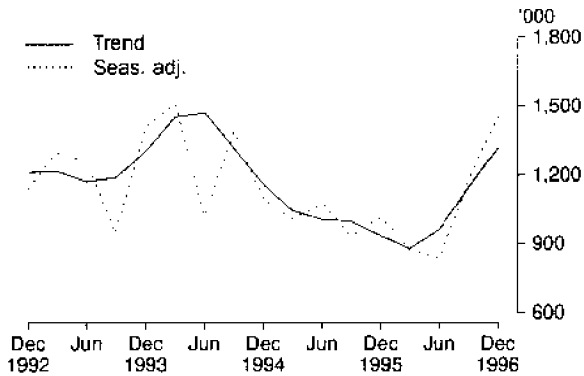
Q

QUARTERLY PRODUCTION *continued*

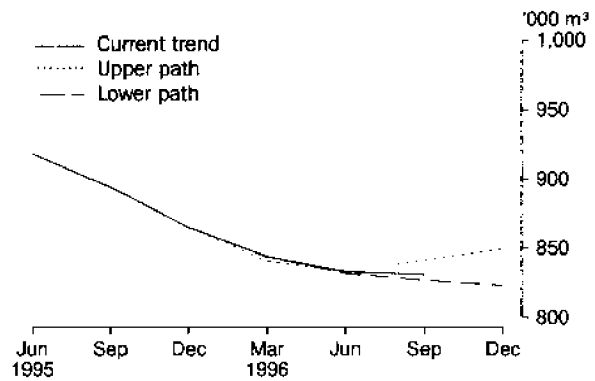
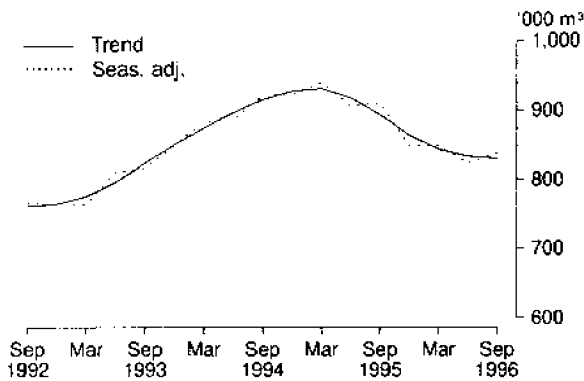
Longer term trend(a)

Short-term sensitivity analysis

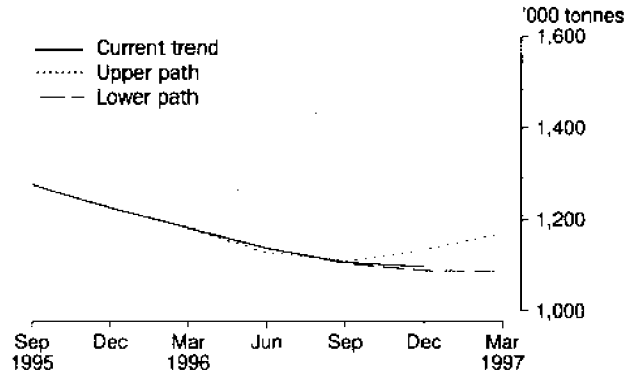
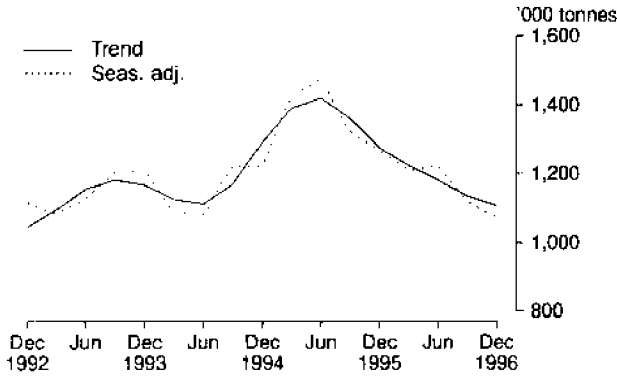
Q5 WOMEN'S SHIRTS AND BLOUSES(c) (seasonally adjusted series average movement 12%)



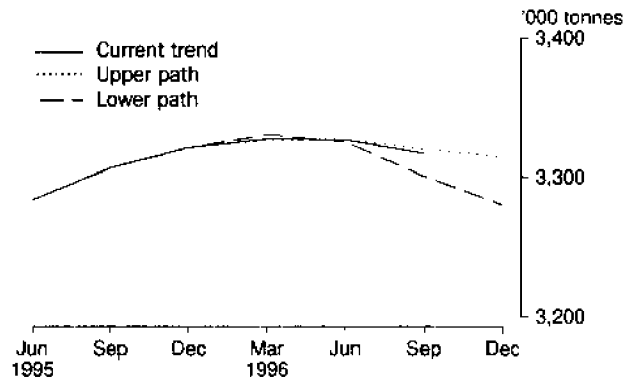
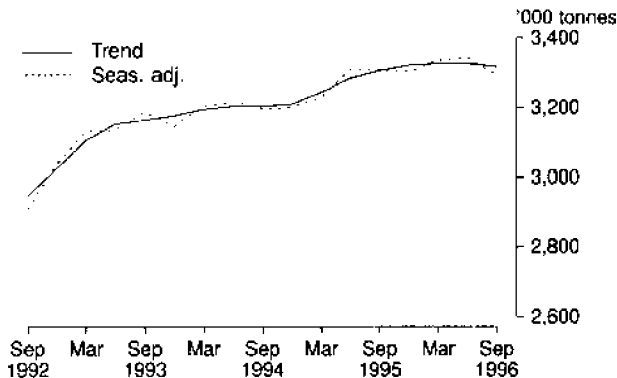
Q6 UNDRESSED SAWN TIMBER(b) (seasonally adjusted series average movement 3%)



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



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



For footnotes see page 24.

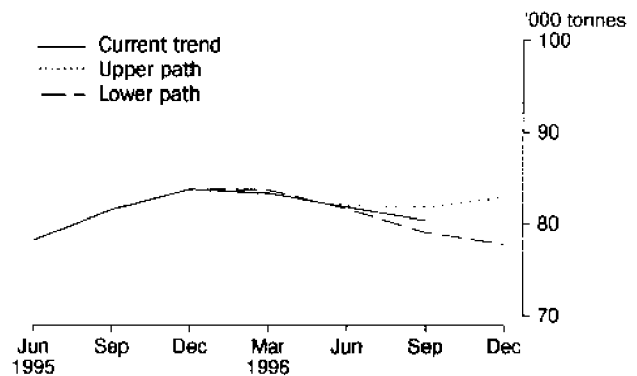
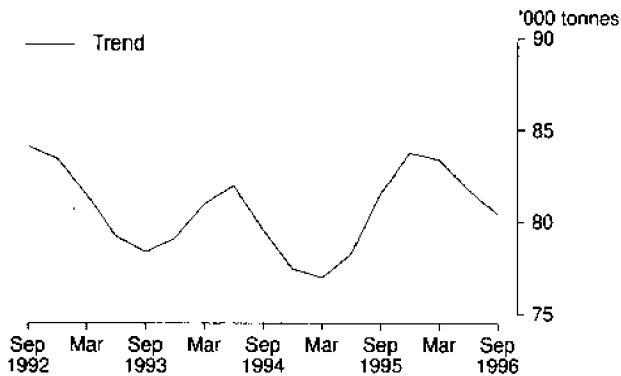
Q

QUARTERLY PRODUCTION *continued*

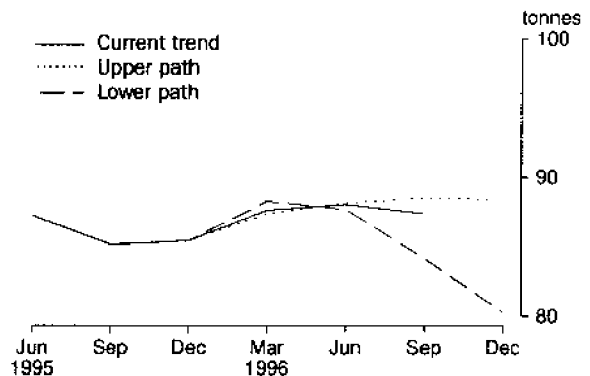
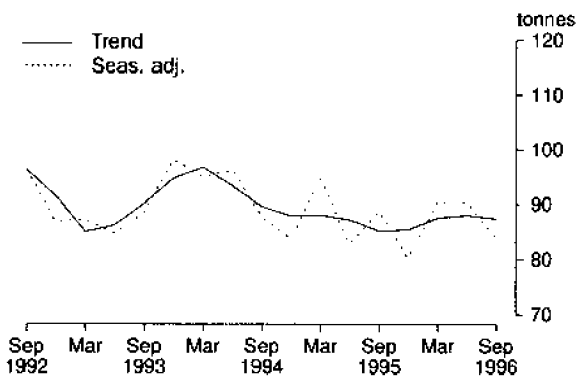
Longer term trend(a)

Short-term sensitivity analysis

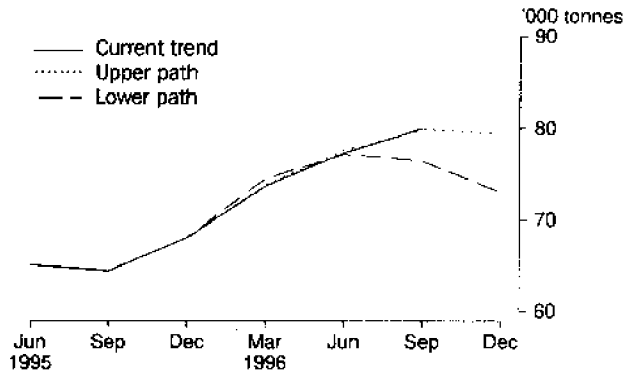
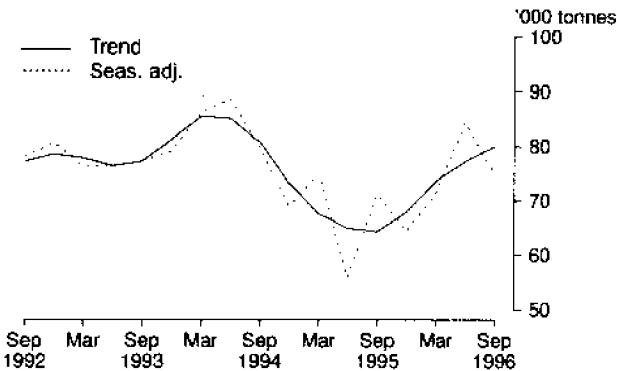
Q9 ZINC(b) (seasonally adjusted series average movement 6%)



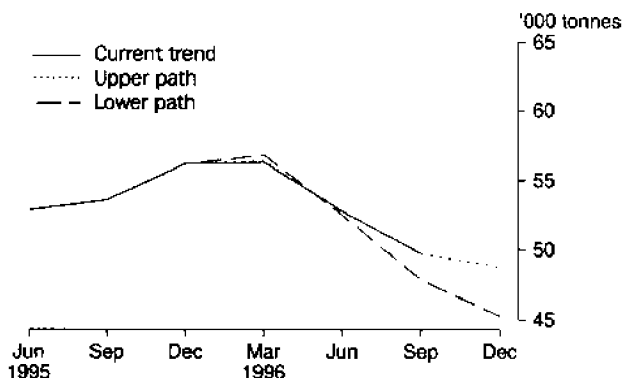
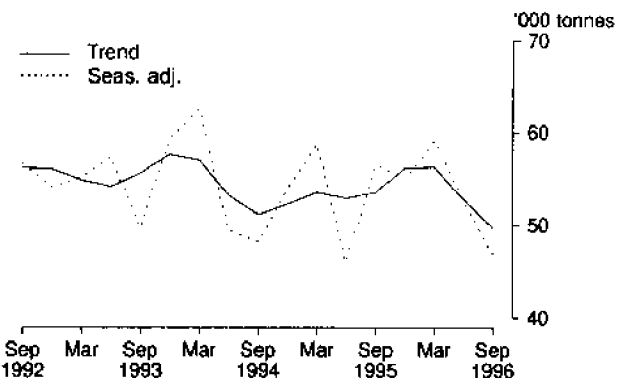
Q10 SILVER(b) (seasonally adjusted series average movement 9%)



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



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



For footnotes see page 24.

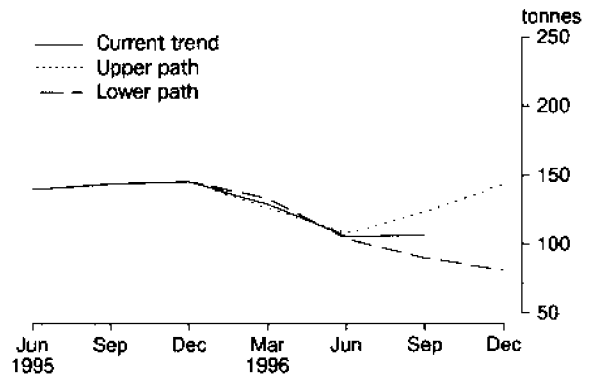
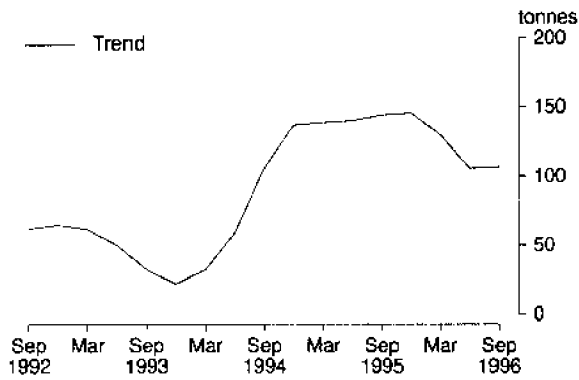
Q

QUARTERLY PRODUCTION *continued*

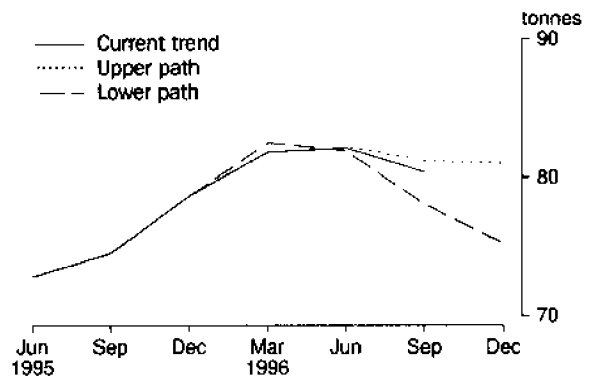
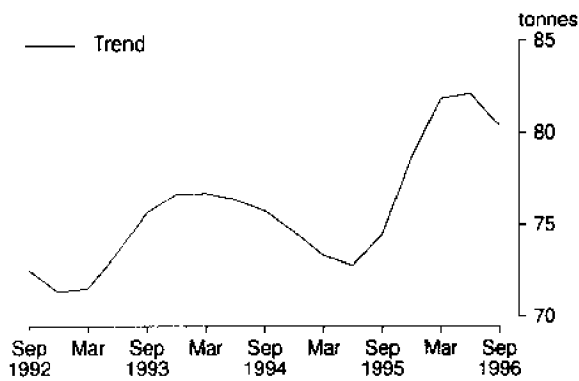
Longer term trend (a)

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..		
		May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	prev. month	same month prev. year	
M1	Red meat ('000 tonnes)												
	Original	229	196	203	197	199	225	r217	190	198	4.4	-0.2	
	Seasonally adjusted	207	205	204	194	199	204	r203	r210	221	4.9	-1.0	
	Trend	209	205	201	199	200	203	206	210	213	1.8	-3.3	
M2	Chicken meat (tonnes)												
	Original	38 071	38 189	40 184	38 185	41 070	43 556	37 788	r42 216	41 457	-1.8	5.0	
	Seasonally adjusted r	38 239	38 686	38 904	41 004	40 959	41 544	40 633	39 929	40 091	0.4	2.9	
	Trend r	38 804	39 076	39 587	40 154	40 611	40 794	40 754	40 612	40 406	-0.5	2.9	
M3	Cheese(b) (tonnes)												
	Original	16 140	r12 118	r11 811	r15 960	26 343	30 988	29 673	27 994	n.y.a.	-5.7	-5.3	
	Seasonally adjusted	22 518	r24 036	r20 373	r19 886	21 713	20 651	20 542	21 865	n.y.a.	6.4	-3.9	
	Trend	22 345	22 103	21 676	21 213	20 911	20 823	20 871	20 947	n.y.a.	0.4	-3.1	
M4	Butter(b) (tonnes)												
	Original	7 065	r8 562	r6 355	r8 665	16 458	18 003	20 062	18 193	n.y.a.	-9.3	-5.4	
	Seasonally adjusted	13 482	r17 107	r14 528	r13 893	13 978	11 501	11 998	11 432	n.y.a.	-4.7	-5.6	
	Trend	14 255	14 658	14 629	14 151	13 409	12 639	11 954	11 282	n.y.a.	-5.6	-2.1	
M5	Flour of wheat or of meslin ('000 tonnes)												
	Original	135	122	128	126	132	127	130	128	126	-1.9	20.3	
	Seasonally adjusted	123	118	130	118	131	124	125	142	134	-5.6	16.6	
	Trend	122	123	123	124	126	128	130	133	135	1.4	12.5	
M6	Prepared foods from cereals (tonnes)												
	Original	8 951	7 758	7 012	8 991	8 722	8 713	9 274	6 096	6 692	9.8	-20.1	
	Seasonally adjusted	8 330	7 728	7 289	9 506	8 294	8 505	8 870	6 019	7 267	20.7	-18.6	
	Trend	8 283	8 204	8 239	8 352	8 380	8 225	7 930	7 591	7 246	-4.5	-16.0	
M7	Biscuits (tonnes)												
	Original	12 875	12 742	12 602	12 817	11 984	12 424	12 052	10 924	7 499	-31.4	9.3	
	Seasonally adjusted	12 007	12 400	11 855	11 922	10 673	11 365	10 967	12 503	11 517	-7.9	6.0	
	Trend	11 972	11 969	11 818	11 601	11 450	11 398	11 436	11 522	11 648	1.1	0.5	
M8	Chocolate based confectionery (tonnes)												
	Original	9 395	9 302	9 852	11 148	9 962	10 375	10 363	8 461	6 684	-21.0	-11.6	
	Seasonally adjusted	8 913	9 366	9 750	9 498	9 735	9 000	9 238	8 640	10 291	19.1	-15.6	
	Trend	8 967	9 216	9 400	9 461	9 419	9 342	9 309	9 331	9 386	0.6	2.0	
M9	Other confectionery (tonnes)												
	Original	6 057	6 605	6 201	6 907	6 822	7 028	6 694	5 414	3 586	-33.8	0.6	
	Seasonally adjusted	5 993	6 244	5 864	5 891	6 148	6 267	5 590	5 776	6 124	6.0	-0.2	
	Trend	6 004	6 005	6 003	6 008	5 999	5 967	5 937	5 918	5 926	0.1	-1.3	
M10	Malt (tonnes)												
	Original	48 050	54 107	50 339	51 910	50 375	50 817	48 372	46 904	46 496	-0.9	8.5	
	Seasonally adjusted	43 886	55 918	52 208	51 025	52 030	52 350	44 076	47 475	48 766	2.7	8.5	
	Trend	49 504	50 916	51 762	51 776	51 016	49 838	48 680	47 649	47 187	-1.0	2.5	
M11	Beer (megalitres)												
	Original	146	120	129	136	133	177	175	156	141	-9.2	5.9	
	Seasonally adjusted	149	150	140	141	140	153	145	128	146	14.4	8.2	
	Trend	145	146	145	144	144	143	142	142	141	-0.2	0.3	
M12	Tobacco and cigarettes (tonnes)												
	Original	1 834	1 777	2 255	2 242	1 796	1 838	2 183	r1 553	969	-37.6	45.4	
	Seasonally adjusted	1 571	1 817	1 758	1 994	1 770	1 980	2 130	r1 671	1 638	-2.0	42.8	
	Trend	1 763	1 805	1 844	1 875	1 903	1 906	1 879	1 831	1 781	-2.8	14.5	
M13	Man-made fibre woven fabric ('000 m²)												
	Original	14 094	11 011	12 258	13 061	12 598	15 479	13 502	9 956	6 932	-30.4	-12.7	
	Seasonally adjusted	12 745	10 544	11 438	12 147	12 682	14 760	12 137	12 094	10 050	-16.9	-15.2	
	Trend	11 248	11 482	11 912	12 385	12 679	12 704	12 495	12 138	11 627	-4.2	-1.5	
M14	Cotton woven fabric ('000 m²)												
	Original	6 033	5 109	6 692	6 003	5 918	5 648	5 510	4 083	2 119	-48.1	-36.6	
	Seasonally adjusted	5 208	4 713	6 882	5 134	5 371	5 415	4 870	4 915	4 628	-5.8	-41.8	
	Trend	5 154	5 298	5 474	5 563	5 448	5 257	5 058	4 880	4 655	-4.6	-21.4	
M15	Cotton yarn (tonnes)												
	Original	3 281	3 527	3 641	3 409	3 848	3 779	3 220	r2 870	2 092	-27.1	10.1	
	Seasonally adjusted	3 071	3 011	3 398	3 020	3 848	3 606	2 949	r3 605	3 239	-10.1	4.7	
	Trend	3 061	3 139	3 240	3 343	3 407	3 424	3 412	3 388	3 347	-1.2	9.5	

For footnotes see page 23.

No.	Item and unit/Series(a)	1996.....									1997..		Percentage changes between latest month shown and.....	
		May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	prev. month	same month prev. year		
M16	Wool yarn (tonnes)													
	Original	1 673	1 483	1 646	1 577	1 569	1 847	1 613	1 344	1 048	-22.1	-15.2		
	Seasonally adjusted	1 547	1 525	1 437	1 440	1 464	1 524	1 590	1 631	1 489	-8.7	-14.5		
	Trend	1 579	1 512	1 474	1 470	1 490	1 518	1 542	1 560	1 575	0.9	-5.0		
M17	Wool woven fabric ('000 m²)													
	Original	528	536	487	449	566	581	723	450	470	4.4	40.8		
	Seasonally adjusted	468	604	473	421	633	495	692	541	717	32.6	40.7		
	Trend	492	491	500	517	542	568	598	627	661	5.3	18.7		
M18	Textile floor coverings ('000 m²)													
	Original	3 621	3 249	3 784	3 684	3 791	4 434	4 079	3 429	2 449	-28.6	-1.4		
	Seasonally adjusted	3 454	3 427	3 684	3 345	3 650	3 841	3 609	3 943	3 771	-4.3	-1.7		
	Trend	3 582	3 518	3 513	3 554	3 620	3 690	3 750	3 800	3 832	0.8	6.8		
M19	Footwear ('000 pairs)													
	Original	1 346	1 089	1 229	1 314	1 248	1 355	1 161	828	705	-14.8	-6.7		
	Seasonally adjusted	1 230	1 194	1 195	1 195	1 146	1 180	1 110	969	1 260	30.0	-7.2		
	Trend	1 206	1 201	1 192	1 178	1 156	1 137	1 125	1 119	1 120	—	-11.5		
M21	Newsprint (tonnes)													
	Original	40 194	35 515	38 160	39 422	33 716	31 685	36 428	33 424	34 772	4.0	-10.0		
	Seasonally adjusted	37 595	37 379	38 449	40 315	35 018	32 976	36 886	33 245	33 867	1.9	-8.9		
	Trend	37 019	37 437	37 606	37 317	36 569	35 598	34 744	34 073	33 495	-1.7	-10.1		
M22	Wood pulp (tonnes)													
	Original	90 827	76 614	74 031	85 486	71 242	75 903	92 247	75 439	81 657	8.2	2.0		
	Seasonally adjusted	87 927	77 345	76 196	80 106	71 744	81 984	87 169	78 890	79 265	0.5	-1.0		
	Trend	79 566	78 856	78 541	78 417	78 794	79 607	80 514	81 238	81 529	0.4	-0.9		
M23	Unlaminated particle board ('000 m³)													
	Original	73	67	63	62	65	78	74	50	47	-6.7	30.2		
	Seasonally adjusted	65	68	61	58	61	65	70	60	79	30.9	30.2		
	Trend	66	64	63	62	62	64	66	69	71	3.9	4.4		
M25	Paperboard containers ('000 tonnes)													
	Original	88 295	81 107	99 703	94 662	95 312	109 883	103 329	86 920	87 546	0.7	1.0		
	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	1 573	1 565	1 694	1 438	1 464	1 416	1 439	n.y.a.	n.y.a.	1.6	-3.2		
	Seasonally adjusted	1 521	1 583	1 585	1 443	1 495	1 432	1 530	n.y.a.	n.y.a.	6.9	-3.2		
	Trend	1 555	1 548	1 529	1 509	1 492	1 480	1 475	n.y.a.	n.y.a.	-0.3	-3.1		
M27	Fuel oil(b) (megalitres)													
	Original	138	165	194	93	147	119	164	n.y.a.	n.y.a.	37.8	0.2		
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.		
	Trend	145	145	142	139	138	140	143	n.y.a.	n.y.a.	2.4	-17.8		
M28	Aviation turbine fuel(b) (megalitres)													
	Original	378	359	443	369	447	502	481	n.y.a.	n.y.a.	-4.2	11.8		
	Seasonally adjusted	387	390	456	366	440	446	499	n.y.a.	n.y.a.	11.8	18.8		
	Trend	405	404	409	419	433	449	466	n.y.a.	n.y.a.	3.7	13.7		
M29	Automotive diesel oil(b) (megalitres)													
	Original	1 127	1 082	1 078	895	1 103	1 032	1 111	n.y.a.	n.y.a.	7.6	9.9		
	Seasonally adjusted	1 094	1 110	1 029	884	1 127	1 032	1 123	n.y.a.	n.y.a.	8.8	9.7		
	Trend	1 036	1 035	1 035	1 036	1 043	1 055	1 065	n.y.a.	n.y.a.	1.0	6.1		
M30	Plastics in primary forms ('000 tonnes)													
	Original	113	81	100	108	100	96	92	94	98	4.1	0.7		
	Seasonally adjusted	112	88	88	107	96	86	96	103	108	5.3	5.5		
	Trend	101	99	96	95	95	96	98	100	103	2.2	0.7		
M31	Rigid PVC tubes, pipes and hoses (tonnes)													
	Original	9 608	8 780	9 439	8 944	6 847	7 186	7 653	5 993	4 407	-26.5	-1.6		
	Seasonally adjusted	7 990	8 444	8 021	8 392	7 233	7 281	7 496	6 445	7 316	13.5	-3.3		
	Trend	8 462	8 361	8 143	7 883	7 628	7 395	7 188	7 021	6 920	-1.4	-7.8		
M32	Polyethylene bottles up to two litres (million)													
	Original	151	134	130	147	158	161	189	198	163	-18.0	7.8		
	Seasonally adjusted	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		
	Trend	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.		

For footnotes see page 23.

No.	Item and unit/Series(a)	1996.....								1997..		Percentage changes between latest month shown and.....	
		May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	prev. month	same month prev. year	
M33	Paint ('000 litres)												
	Original	16 119	14 627	15 253	15 662	15 649	18 331	19 014	15 522	15 127	-2.5	16.3	
	Seasonally adjusted	15 218	15 907	14 858	15 281	15 525	17 103	17 303	16 027	17 262	7.7	8.9	
	Trend	15 504	15 325	15 351	15 599	15 960	16 319	16 638	16 892	17 132	1.4	10.8	
M34	Superphosphates ('000 tonnes)												
	Original	174	101	85	45	103	187	173	n.p.	n.p.	-7.5	-5.8	
	Seasonally adjusted	164	148	158	96	193	178	136	n.p.	n.p.	-23.6	-9.1	
	Trend	140	145	149	153	155	157	157	n.p.	n.p.	0.2	3.5	
M35	Portland cement ('000 tonnes)												
	Original	543	559	564	582	561	566	586	540	417	-22.8	0.6	
	Seasonally adjusted	512	542	535	529	562	537	529	572	552	-3.6	-0.5	
	Trend	537	533	534	537	541	545	548	551	555	0.6	4.9	
M36	Clay bricks (million)												
	Original	125	117	126	128	126	137	122	110	91	-17.2	14.3	
	Seasonally adjusted	113	116	116	119	125	126	120	120	133	11.2	16.9	
	Trend	115	117	118	120	121	123	124	125	127	1.0	9.3	
M37	Ready mixed concrete ('000 m³)												
	Original	1 307	1 157	1 319	1 320	1 272	1 438	1 404	1 099	1 007	-8.3	5.7	
	Seasonally adjusted	1 173	1 193	1 229	1 214	1 280	1 286	1 335	1 273	1 252	-1.6	4.1	
	Trend	1 199	1 202	1 217	1 240	1 264	1 280	1 288	1 291	1 288	-0.2	6.9	
M38	Basic iron, spiegeleisen and sponge iron(c) ('000 tonnes)												
	Original	620	620	678	627	611	578	544	612	580	-5.3	-7.9	
	Seasonally adjusted	619	624	663	604	598	561	534	623	585	-6.2	-7.5	
	Trend	633	629	620	608	595	584	578	575	575	-0.1	-10.0	
M39	Blooms and slabs of iron or steel(c) ('000 tonnes)												
	Original	655	658	696	666	633	626	590	661	631	-4.6	-3.9	
	Seasonally adjusted	664	670	694	648	611	593	581	665	625	-6.0	-3.8	
	Trend	674	669	657	642	628	618	614	615	617	0.4	-6.8	
M40	Insulated wire (tonnes)												
	Original	6 705	6 037	6 604	6 426	5 801	6 143	7 160	6 252	4 025	-35.6	11.4	
	Seasonally adjusted	6 035	6 310	6 216	6 191	5 264	5 490	6 593	7 666	6 767	-11.7	10.9	
	Trend	6 070	6 015	5 931	5 909	5 976	6 145	6 401	6 683	6 955	4.1	16.1	
M41	Cars and station wagons (no.)												
	Original	30 293	25 310	30 701	25 747	28 863	29 916	26 149	19 124	15 828	-17.2	20.2	
	Seasonally adjusted	25 761	25 720	27 208	22 334	26 777	25 848	24 109	23 351	31 783	36.1	19.7	
	Trend	25 747	25 679	25 473	25 195	25 055	25 216	25 678	26 354	27 132	3.0	6.1	
M42	Vehicles for goods and materials (no.)												
	Original	2 864	2 419	2 830	2 714	2 465	2 397	2 227	1 677	1 432	-14.6	42.8	
	Seasonally adjusted	2 379	2 478	2 572	2 437	2 432	2 002	2 090	2 145	2 859	33.3	38.8	
	Trend	2 409	2 462	2 448	2 381	2 305	2 259	2 258	2 298	2 362	2.8	17.6	
M43	Telephones ('000)												
	Original	108	76	101	119	120	115	123	84	n.p.	6.3	-14.8	
	Seasonally adjusted	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
	Trend	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
M44	Domestic refrigerators (no.)												
	Original	36 299	27 261	35 700	29 593	37 143	40 414	35 942	31 257	35 171	12.5	-7.9	
	Seasonally adjusted	33 366	32 761	38 557	31 683	40 168	34 102	32 567	32 668	32 643	-0.1	-10.2	
	Trend	31 483	32 912	34 531	35 538	35 559	34 839	34 006	33 252	32 411	-2.5	-5.8	
M45	Water heaters (no.)												
	Original	59 112	50 558	60 777	55 840	r50 761	r61 774	r56 240	39 683	20 348	-48.7	-5.5	
	Seasonally adjusted	51 014	49 603	55 091	50 901	r47 641	r54 153	r51 776	42 799	43 914	2.6	-3.8	
	Trend	49 065	50 693	51 749	51 965	51 307	50 082	48 589	47 005	45 276	-3.7	-2.7	
M46	Domestic clothes washing machines (no.)												
	Original	25 940	27 380	31 489	26 685	21 682	24 860	22 056	15 492	8 093	-47.8	-24.8	
	Seasonally adjusted	25 089	27 200	27 587	21 813	19 629	21 854	19 924	18 235	15 856	-13.0	-25.8	
	Trend	23 447	24 251	24 415	23 706	22 293	20 629	19 215	18 004	17 028	-5.4	-24.3	
M47	Electric motors ('000)												
	Original	267	213	228	254	214	248	249	201	168	-16.6	6.4	
	Seasonally adjusted	234	221	223	242	203	214	231	236	256	8.3	4.3	
	Trend	218	219	221	222	222	224	229	235	241	2.5	-2.8	

For footnotes see page 23.

1

MONTHLY PRODUCTION *continued*

No.	Item and unit/Series(a)	1996.....									1997..		
		May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Percentage changes between latest month shown and.....	same month prev. year	
M48	Electricity (million kWh)												
	Original	14 414	14 366	15 343	14 668	13 730	13 733	13 460	13 569	14 418	6.3	5.4	
	Seasonally adjusted	13 925	13 950	14 101	13 602	13 911	13 770	14 046	13 969	14 590	4.4	4.7	
	Trend	14 025	13 967	13 892	13 844	13 849	13 909	14 005	14 118	14 234	0.8	2.2	
M49	Gas (terajoules)												
	Original	54 562	58 615	65 895	62 709	55 103	50 582	48 591	47 218	46 011	-2.6	9.5	
	Seasonally adjusted	50 485	50 295	53 308	52 420	50 874	49 609	52 435	55 426	57 643	4.0	9.9	
	Trend	51 842	51 578	51 306	51 242	51 526	52 167	53 093	54 203	55 248	1.9	5.8	

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

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

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

No.	Item and unit/Series(a)	1994...			1995.....			1996.....			Percentage changes between latest quarter shown and....	
		Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	prev. quarter	same quarter prev. year
Q1	Men's and boys' long trousers ('000)											
	Original	987	822	944	1 013	r753	788	923	1 065	740	-30.5	-1.6
	Seasonally adjusted	1 006	932	858	977	768	893	839	1 027	756	-26.4	-1.6
	Trend	982	947	907	879	851	863	893	899	859	-4.4	1.0
Q2	Women's and girls' long trousers ('000)											
	Original	380	628	443	252	202	359	458	247	243	-1.6	20.1
	Seasonally adjusted	486	510	414	275	261	288	429	271	314	16.1	20.5
	Trend	489	478	403	305	277	311	339	331	310	-6.5	11.9
Q3	Jeans ('000)											
	Original	770	641	887	979	764	706	851	852	771	-9.5	0.9
	Seasonally adjusted	817	777	813	857	810	858	779	746	817	9.5	0.9
	Trend	806	799	812	833	842	819	793	780	778	-0.3	-7.6
Q4	Men's and boys' shirts ('000)											
	Original	2 900	2 347	2 554	2 841	2 741	2 179	2 529	2 974	2 363	-20.5	-13.8
	Seasonally adjusted	2 688	2 859	2 772	2 404	2 557	2 632	2 741	2 519	2 212	-12.2	-13.5
	Trend	2 844	2 767	2 667	2 561	2 542	2 638	2 641	2 503	2 319	-7.3	-8.8
Q5	Women's shirts and blouses(c) ('000)											
	Original	1 218	806	864	1 202	1 132	697	674	1 511	1 619	7.2	43.1
	Seasonally adjusted	1 094	1 009	1 076	935	1 017	874	835	1 177	1 456	23.7	43.2
	Trend	1 158	1 047	1 006	998	935	880	963	1 146	1 317	14.9	40.9
Q6	Undressed sawn timber(b) ('000 m³)											
	Original	916	883	925	958	840	799	840	882	n.y.a.	5.0	-7.9
	Seasonally adjusted	924	940	907	911	850	849	825	838	n.y.a.	1.6	-8.0
	Trend	928	932	918	894	865	844	833	831	n.y.a.	-0.2	-7.1
Q7	Hardwood woodchips ('000 tonnes)											
	Original	1 417	1 402	1 332	1 334	1 203	1 163	1 128	1 128	1 128	—	-6.2
	Seasonally adjusted	1 424	1 477	1 324	1 269	1 211	1 224	1 120	1 073	1 136	5.9	-6.2
	Trend	1 392	1 420	1 364	1 277	1 226	1 183	1 138	1 108	1 097	-0.9	-10.5
Q8	Alumina(b) ('000 tonnes)											
	Original	3 203	3 203	3 299	3 348	3 297	3 311	3 336	3 334	n.y.a.	-0.1	-0.4
	Seasonally adjusted	3 204	3 232	3 308	3 307	3 302	3 337	3 345	3 293	n.y.a.	-1.6	-0.4
	Trend	3 210	3 245	3 284	3 307	3 321	3 327	3 327	3 317	n.y.a.	-0.3	0.3
Q9	Zinc(b) ('000 tonnes)											
	Original	78	72	81	82	85	81	82	82	n.y.a.	—	—
	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	77	78	82	84	83	82	80	n.y.a.	-1.7	-1.4
Q10	Silver(b) (tonnes)											
	Original	79	93	89	89	75	90	97	84	n.y.a.	-13.4	-5.6
	Seasonally adjusted	84	95	83	89	80	91	90	84	n.y.a.	-7.3	-5.6
	Trend	88	88	87	85	85	88	88	87	n.y.a.	-0.7	2.6
Q11	Copper(b) ('000 tonnes)											
	Original	68	71	55	78	63	68	83	82	n.y.a.	-1.2	5.1
	Seasonally adjusted	69	75	56	71	64	72	84	75	n.y.a.	-11.3	5.0
	Trend	73	68	65	64	68	74	77	80	n.y.a.	3.4	24.2
Q12	Lead(b) ('000 tonnes)											
	Original	55	53	49	57	56	54	56	47	n.y.a.	-16.1	-17.5
	Seasonally adjusted	54	59	46	56	55	59	53	47	n.y.a.	-11.4	-17.3
	Trend	52	54	53	54	56	56	53	50	n.y.a.	-5.8	-7.2
Q13	Tin(b) (tonnes)											
	Original	135	180	65	165	160	90	135	100	n.y.a.	-25.9	-39.4
	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	136	138	140	144	145	130	106	107	n.y.a.	1.3	-25.7
Q14	Gold(b) (tonnes)											
	Original	71	74	74	75	75	85	83	81	n.y.a.	-3.1	7.4
	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	75	73	73	74	79	82	82	80	n.y.a.	-2.1	7.9

(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) 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.

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 ready mixed concrete production.

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

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

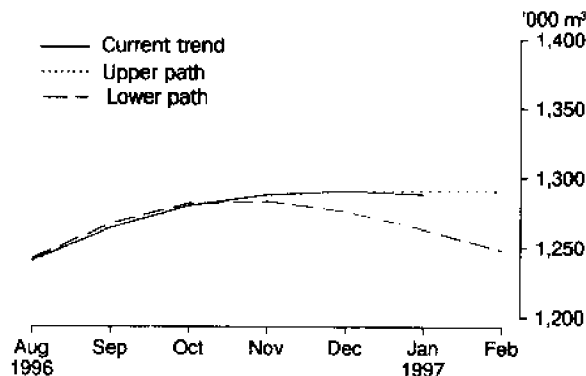
M37 READY MIXED CONCRETE ('000 m³)

WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:

	TREND as PUBLISHED	1 1 252 <i>i.e. the same as Jan 1997</i>	2 1 300 <i>i.e. rises by 4%</i>	3 1 204 <i>i.e. falls by 4%</i>	4 1 306 <i>i.e. same trend for Jan and Feb</i>
1996					
November	1 288	1 286	1 288	1 283	1 288
December	1 291	1 283	1 290	1 276	1 291
1997					
January	1 288	1 277	1 290	1 264	1 292
February (new)	—	1 289	1 289	1 249	1 292

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 READY MIXED CONCRETE



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* (8125.0). These estimates are shown as index numbers and are derived mainly from estimates of manufacturers' sales and stocks.

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

EXPLANATORY NOTES *continued*

SEASONALLY ADJUSTED AND TREND ESTIMATES

11 Seasonally adjusted statistics are shown for most of the data items contained in this publication. In the seasonal adjustment, account has been taken not only of normal seasonal factors, but also where appropriate, of 'working day' effects (arising from the varying numbers of Sundays, Mondays, Tuesdays, etc. in the month) and the influence of Easter and Australia Day which may, in successive years, affect figures for different months or quarters. Details of the methods used in seasonally adjusting these series are available on request.

12 Seasonal adjustment procedures do not aim to remove the irregular or non-seasonal influences which may be present in any particular month or quarter, such as the non-systematic effect of strikes, holiday shutdowns, providers' inconsistent reporting periods (where, for example, a 'month' may variously represent 4 or 5 weeks production), or other factors which vary with the prevailing demand for products. Irregular influences that are highly volatile can make it difficult to interpret the movement of the series even after seasonal adjustment.

13 The smoothing of seasonally adjusted series to create trend estimates is a means of reducing the impact of the irregular component of the series. The trend estimates have been derived by applying a 13-term Henderson weighted moving average to the monthly and a 7-term moving average to the quarterly seasonally adjusted series. The 7- and 13-term Henderson averages (like all Henderson averages) are symmetric but, as the end of a time series is approached, asymmetric forms of the average are applied. Unlike the weights of the standard 7-term Henderson moving average, the surrogate weights employed with the quarterly data have been tailored to suit the particular characteristics of individual series.

14 While the asymmetric weights enable trend estimates for recent months or quarters to be produced, it does result in revisions to the estimates for the most recent months or quarters as additional observations become available. Generally, subsequent revisions become smaller and after 3 months or 2 quarters have little impact on the series. There will also be revisions as a result of revisions to the original estimates and annual reviews of seasonal and 'working day' factors.

15 Users may wish to refer to the ABS Information Paper *A Guide to Interpreting Time Series — Monitoring Trends*, an overview (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

- *International Trade, Australia: FASTTRACCS Service — Hardcopy Reports* (5461.0)
- *Stocks, Selected Industry Sales and Expected Sales, Australia* (5629.0) issued quarterly
- *Livestock products, Australia* (7215.0) issued monthly
- *Indexes of Industrial Production, Australia* (8125.0) issued quarterly
- *Manufacturing Industry, Australia: Preliminary* (8201.0) issued annually
- *Information Paper: Availability of Statistics Related to Manufacturing, 1996* (8205.0), released on 21 March 1996
- *Manufacturing Industry, Australia* (8221.0) issued annually

- *Manufacturing Production, Australia: Principal Commodities Produced, 1989-90* (8365.0)
- *Australian Mining Industry* (8414.0) issued annually

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
electricity
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 (02) 9268 4541.

CURRENT PUBLICATIONS

18 Current publications produced by the ABS are listed in the *Catalogue of Publications and Products* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

APPENDIX CLARIFICATION OF TERMS

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

APPENDIX CLARIFICATION OF TERMS *continued*

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

APPENDIX CLARIFICATION OF TERMS *continued*

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

