



February 1997

EMBARGO: 11:30 AM (CANBERRA TIME) FRI 4 APR 1997

Manufacturing Production

Australia

NOTES

FORTHCOMING ISSUES	ISSUE	RELEASE DATE
	March 1997	2 May 1997
	April 1997	2 June 1997
	May 1997	2 July 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.

EFFECTS OF ROUNDING

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

SYMBOLS AND OTHER USAGES

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

INQUIRIES

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

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

W. McLennan
Australian Statistician

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KEY POINTS

GENERAL TRENDS

Latest trends indicate that of the 57 indicators available, 19 showed rising production trends, 17 showed falling trends while 21 were relatively stable.

PUBLISHED PRODUCTION TREND....

	<i>Indicators available</i>	<i>Rising</i>	<i>Falling</i>	<i>Stable</i>
December 1996 issue	58	22	24	12
January 1997 issue	58	24	20	14
February 1997 issue	57	19	17	21

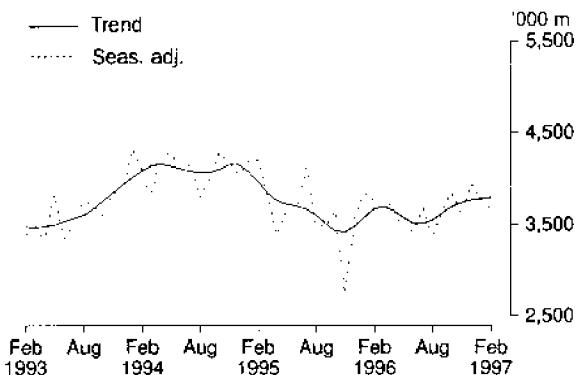
SERIES TRENDS

Two of the more notable trends were production of textile floor coverings and paint. The trend for production of textile floor coverings has been increasing since July 1996, but will fall in March 1997 unless there is a rise in the seasonally adjusted series of over 7% (the average movement for this series is 6%).

Paint production for February 1997 was stable (rising slightly, by 0.1%). This series has been rising since June 1996, but will fall in March 1997 unless the seasonally adjusted series rises by over 5% (the average movement for this series is 4%).

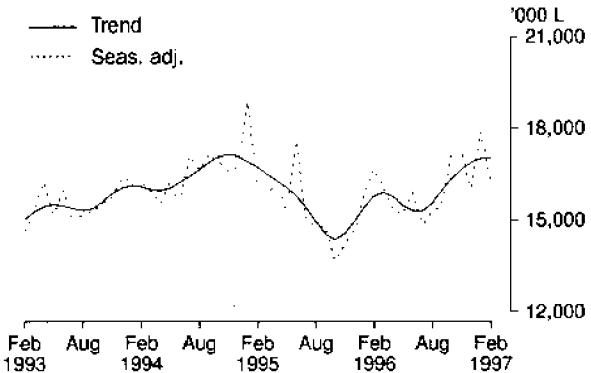
M18 TEXTILE FLOOR COVERINGS

(Seas. adj. series average movement 6%)



M33 PAINT

(Seas. adj. series average movement 4%)

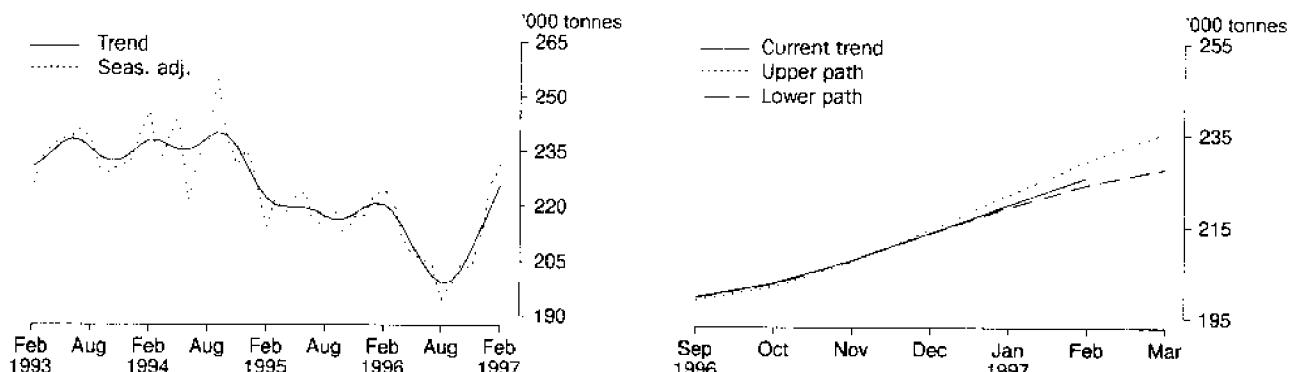


M

MONTHLY PRODUCTION

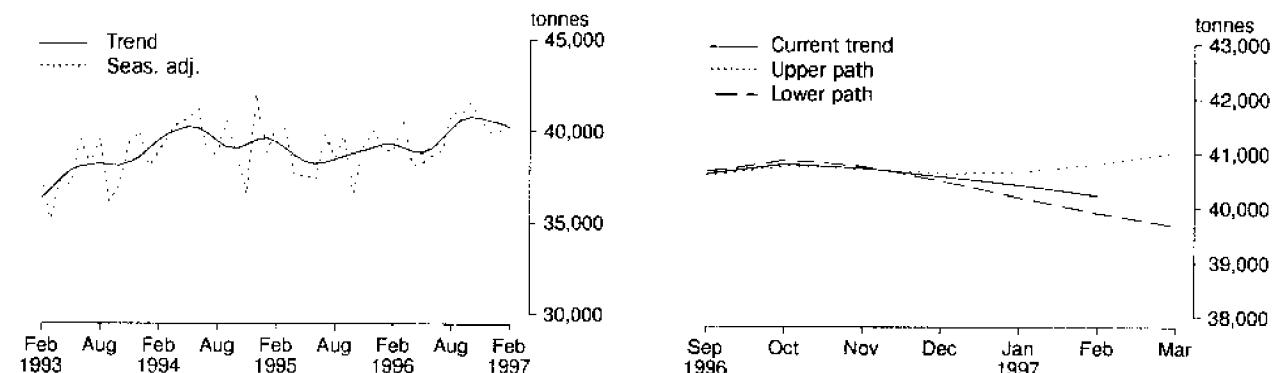
Longer term trend(a)

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

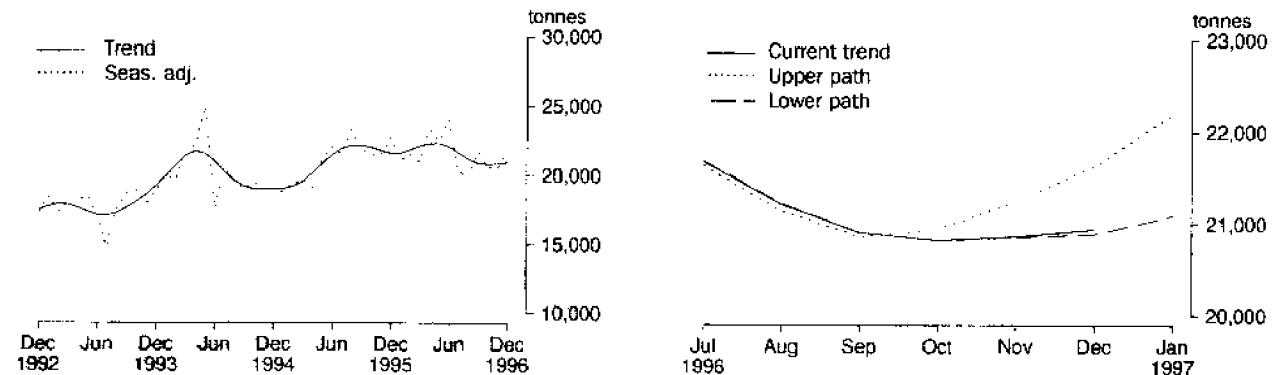


Short-term sensitivity analysis

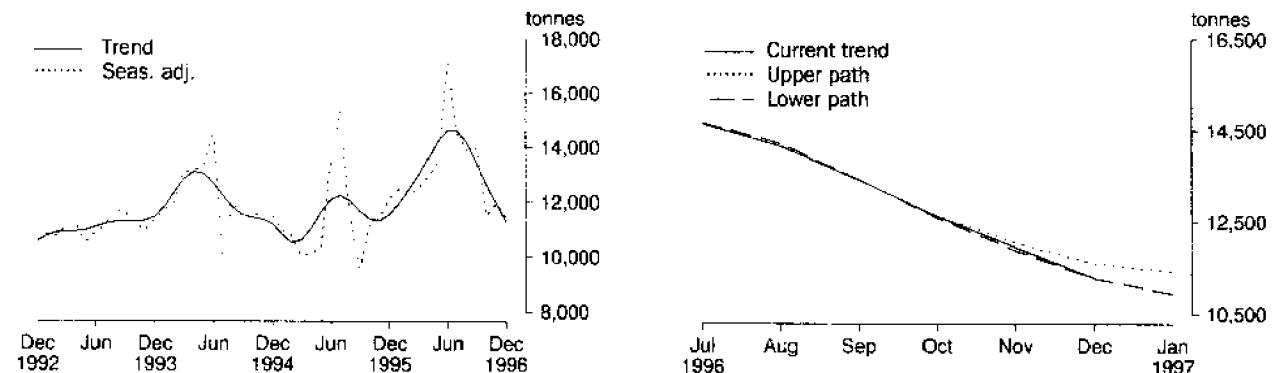
M2 CHICKEN MEAT (seasonally adjusted series average movement 4%)



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

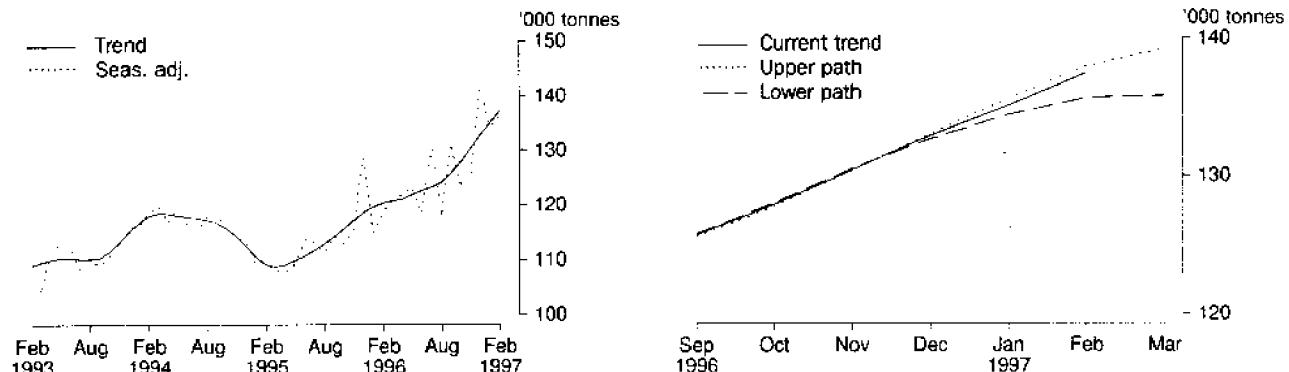
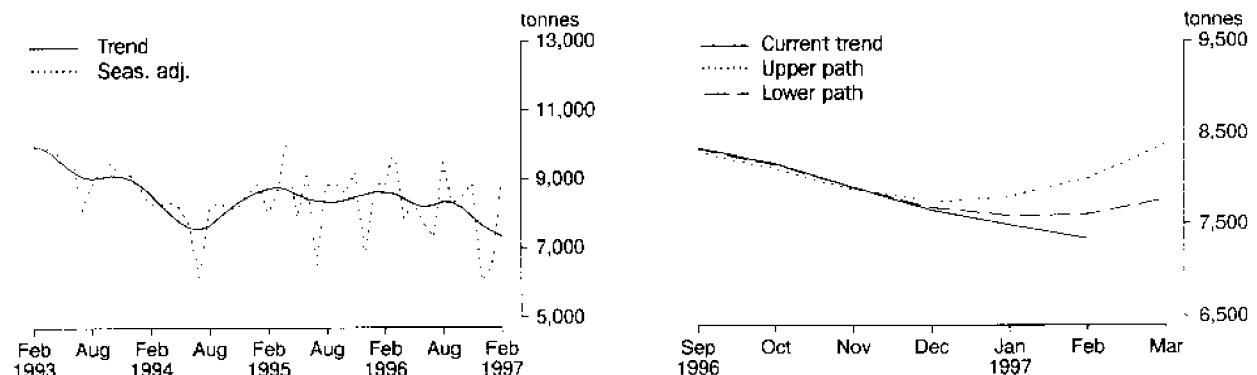
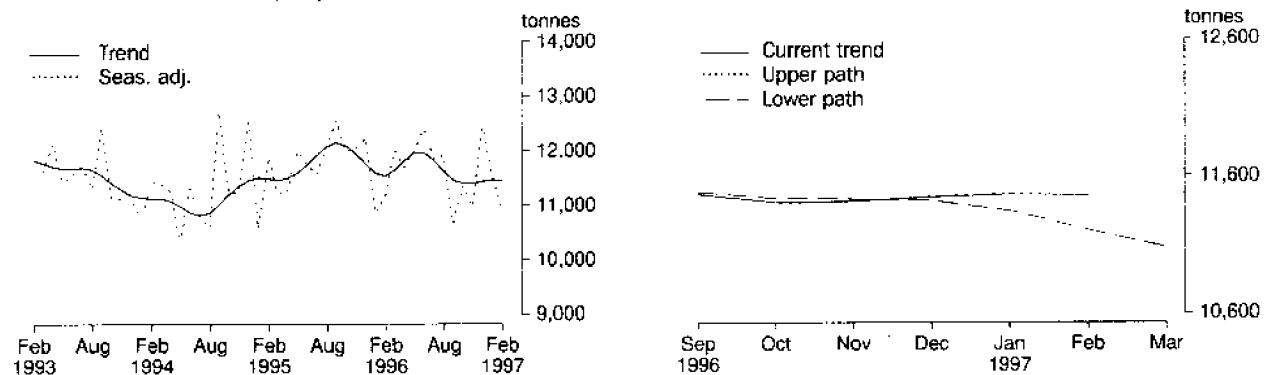
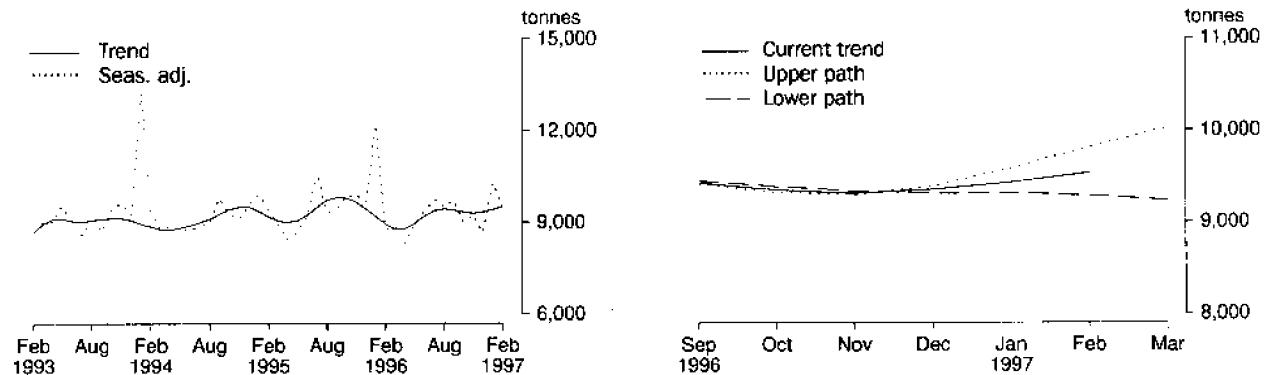


M4 BUTTER(b) (seasonally adjusted series average movement 7%)



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.

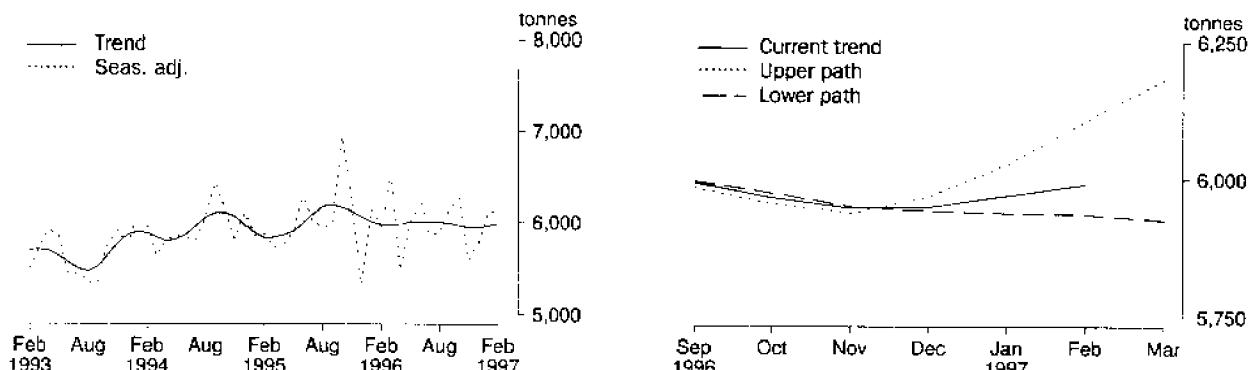
M

MONTHLY PRODUCTION *continued*

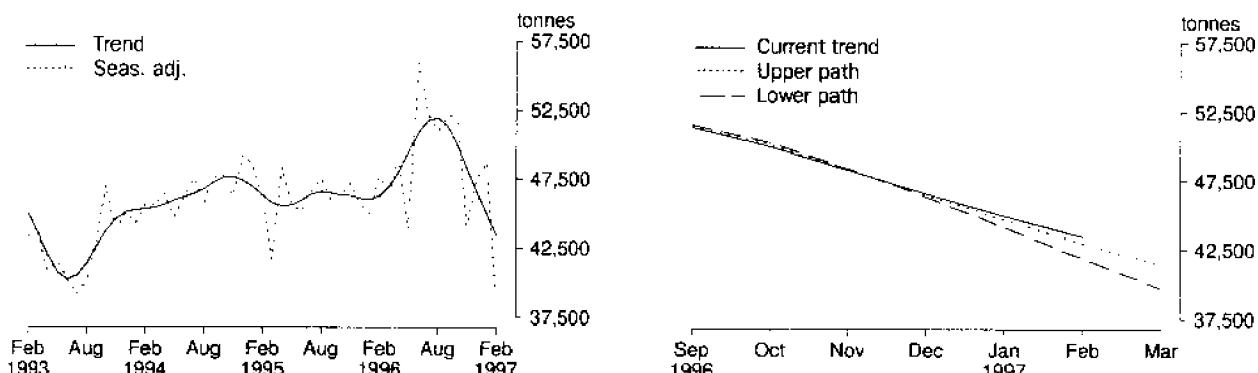
Longer term trend(a)

Short-term sensitivity analysis

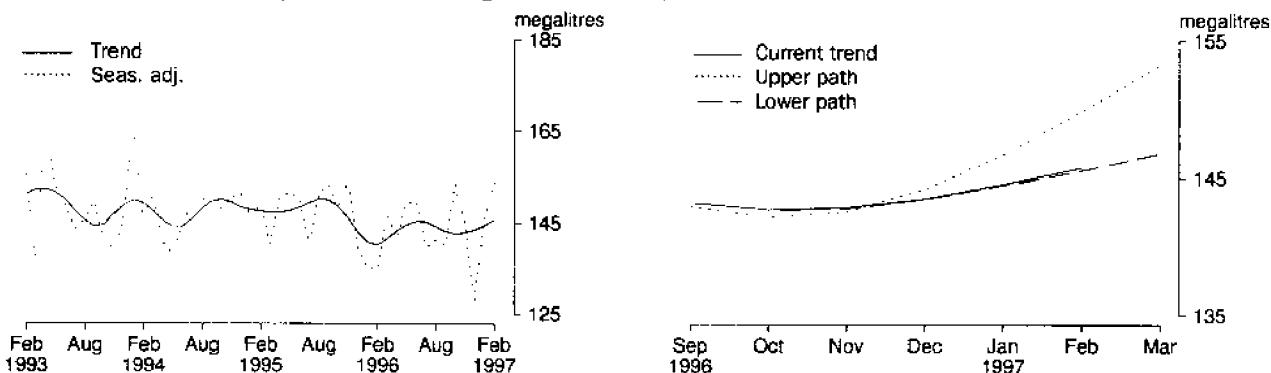
M9 OTHER CONFECTIONERY (seasonally adjusted series average movement 5%)



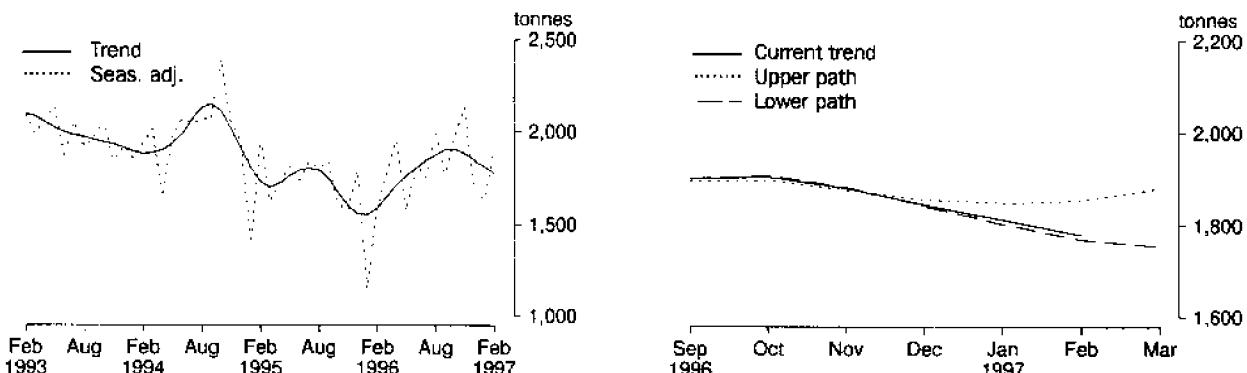
M10 MALT (seasonally adjusted series average movement 5%)



M11 BEER (seasonally adjusted series average movement 5%)



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

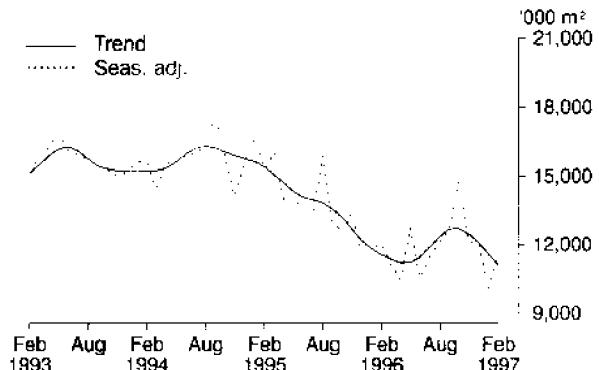


M

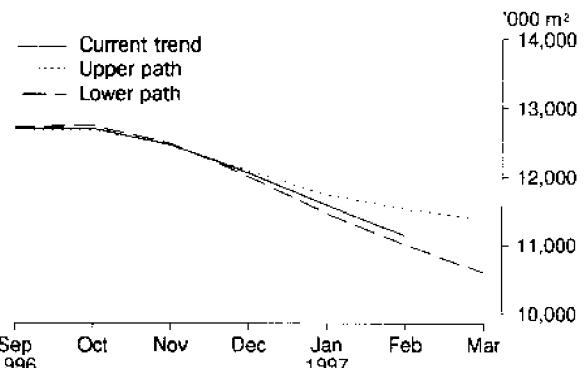
MONTHLY PRODUCTION continued

Longer term trend (a)

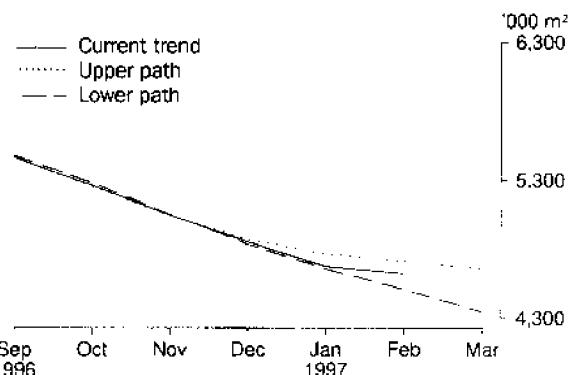
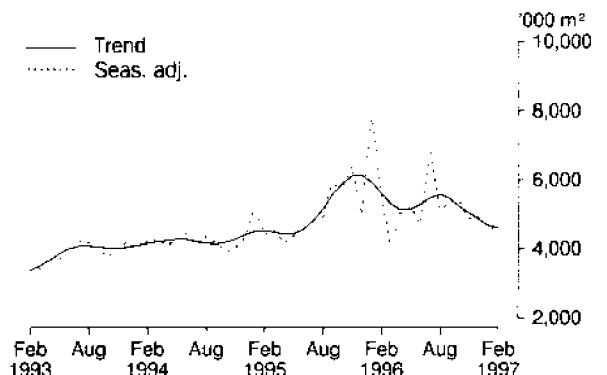
M13 MAN-MADE FIBRE WOVEN FABRIC (seasonally adjusted series average movement 8%)



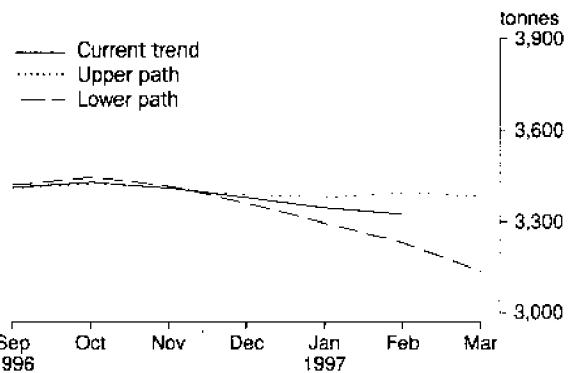
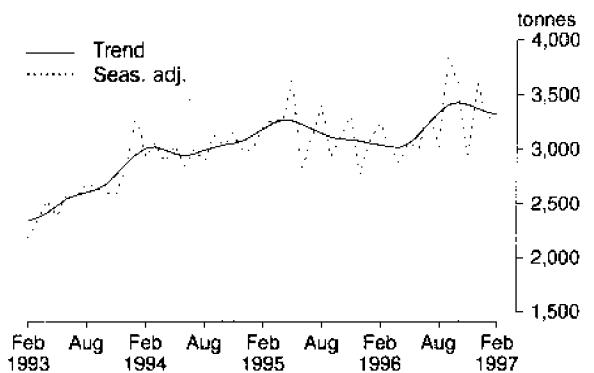
Short-term sensitivity analysis



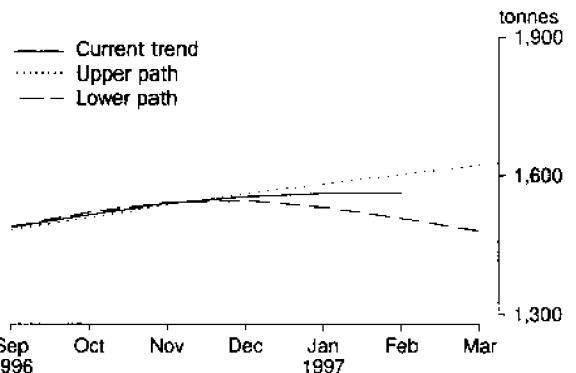
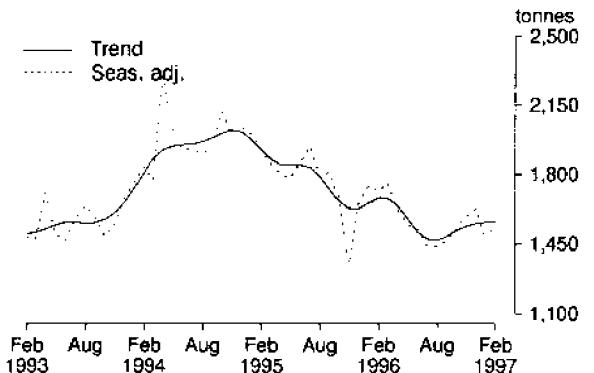
M14 COTTON WOVEN FABRIC (seasonally adjusted series average movement 9%)



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



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



For footnotes see page 23.

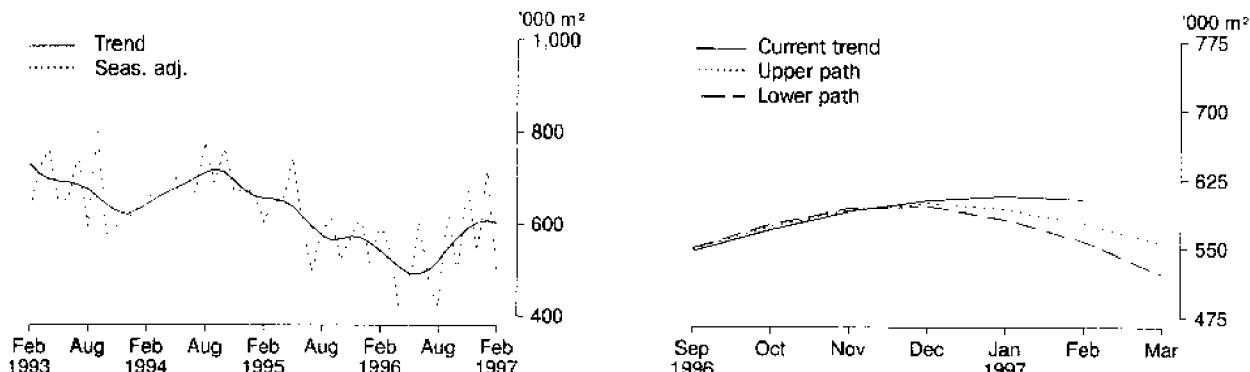
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MONTHLY PRODUCTION continued

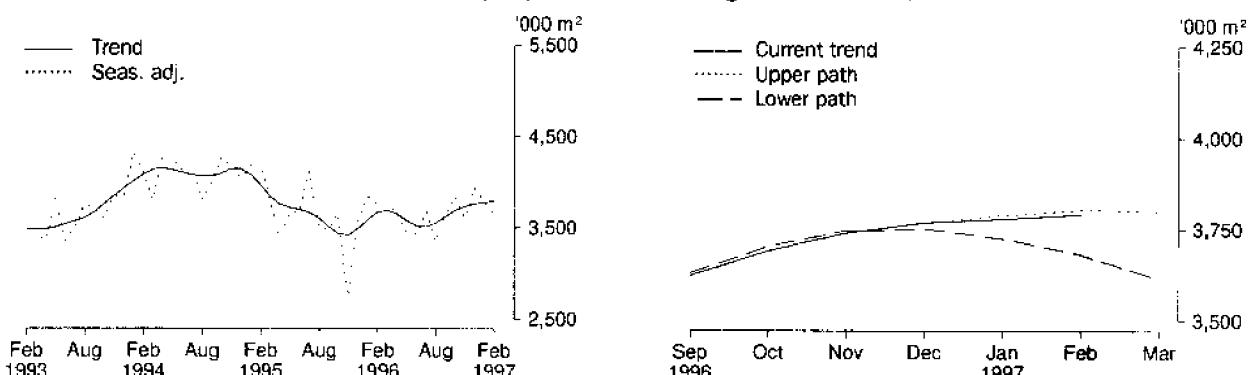
Longer term trend (a)

Short-term sensitivity analysis

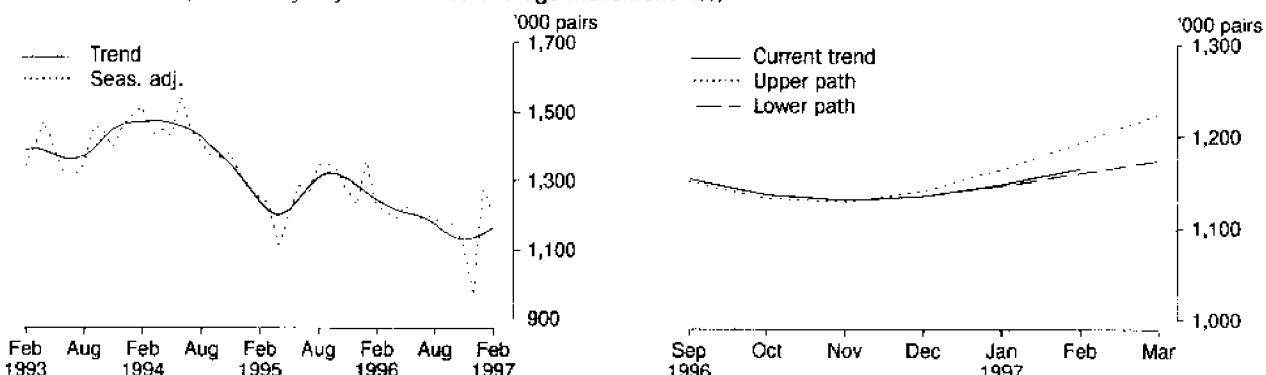
M17 WOOL WOVEN FABRIC (seasonally adjusted series average movement 8%)



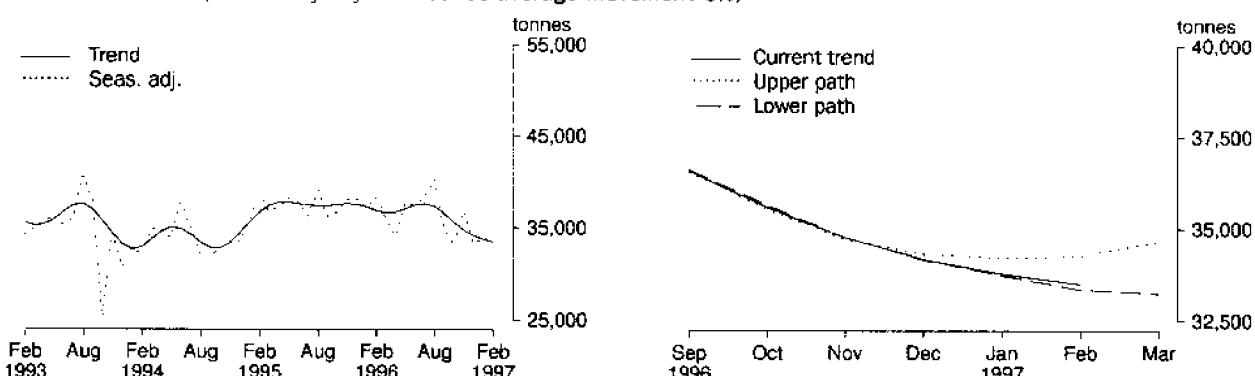
M18 TEXTILE FLOOR COVERINGS (seasonally adjusted series average movement 6%)



M19 FOOTWEAR (seasonally adjusted series average movement 4%)



M21 NEWSPRINT (seasonally adjusted series average movement 5%)



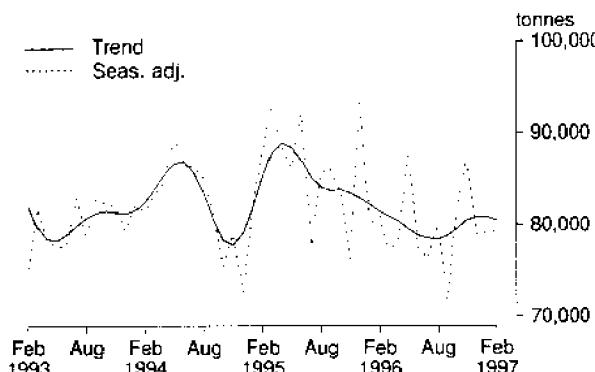
For footnotes see page 23.

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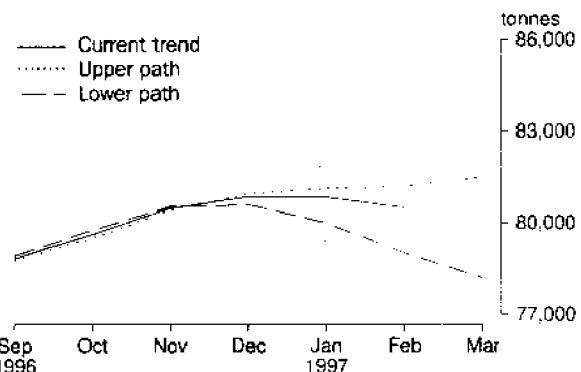
MONTHLY PRODUCTION *continued*

Longer term trend (a)

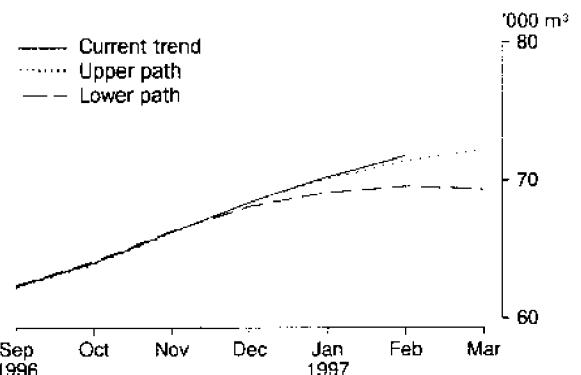
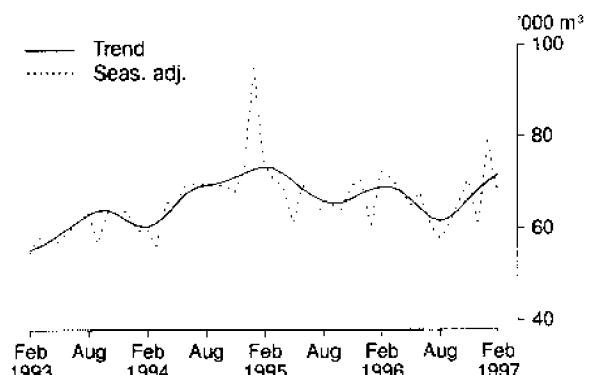
M22 WOOD PULP (seasonally adjusted series average movement 5%)



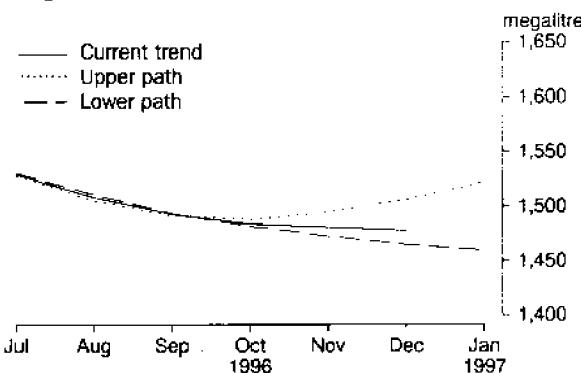
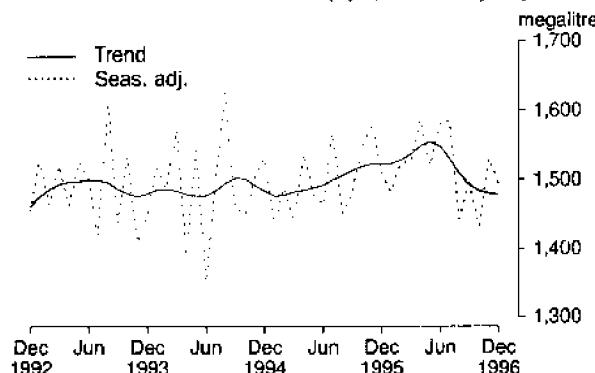
Short-term sensitivity analysis



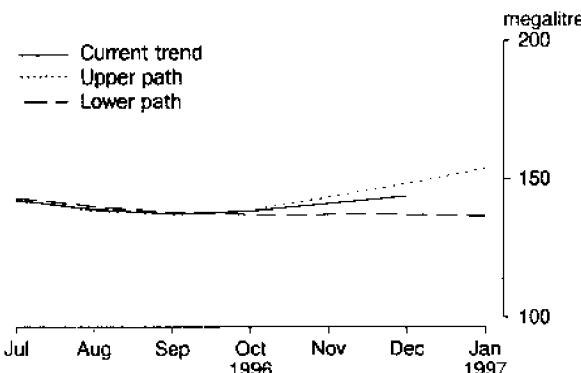
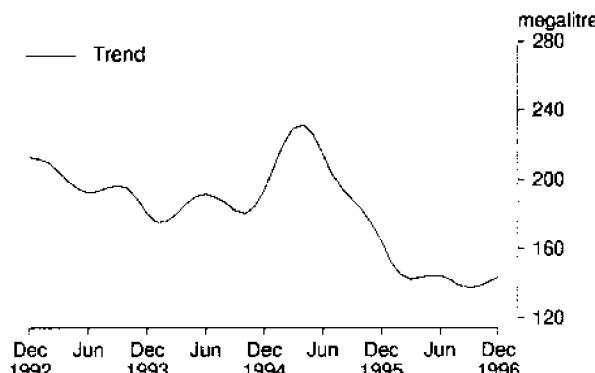
M23 UNLAMINATED PARTICLE BOARD (seasonally adjusted series average movement 5%)



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



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



For footnotes see page 23.

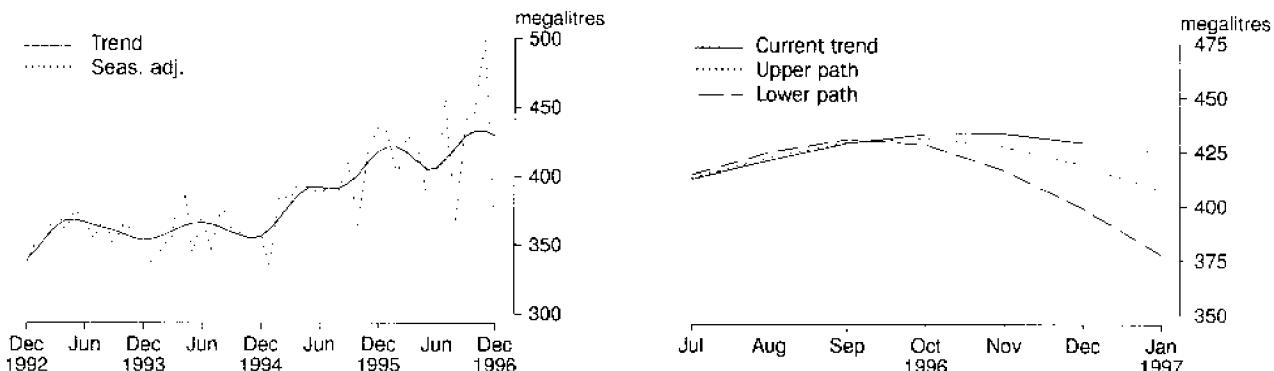
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MONTHLY PRODUCTION *continued*

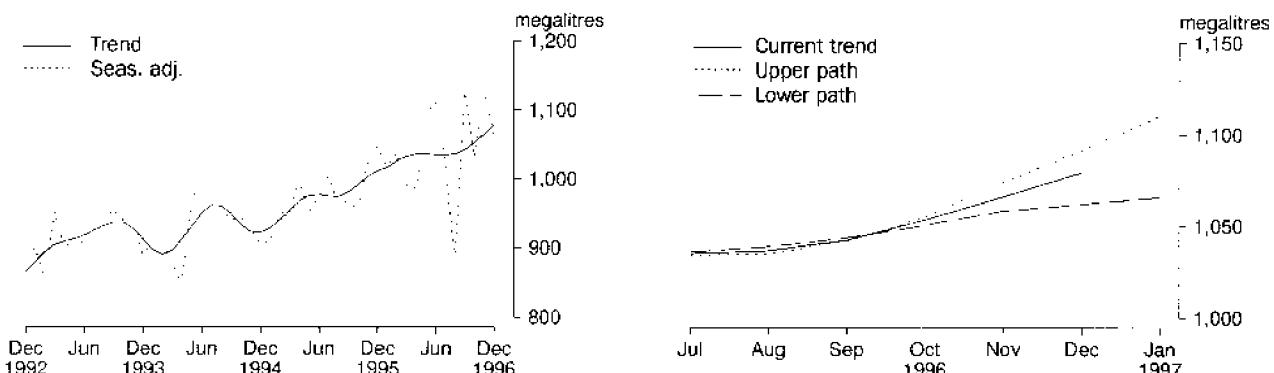
Longer term trend(a)

Short-term sensitivity analysis

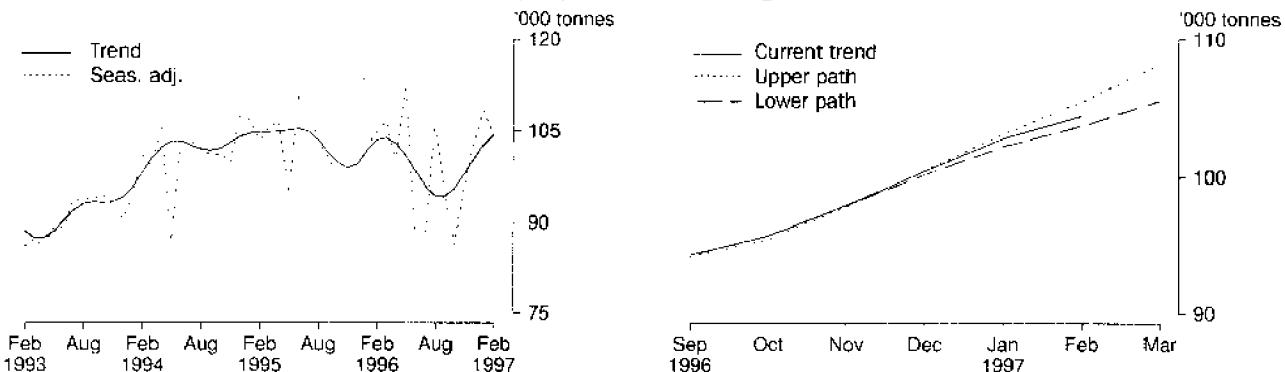
M28 AVIATION TURBINE FUEL(b) (seasonally adjusted series average movement 9%)



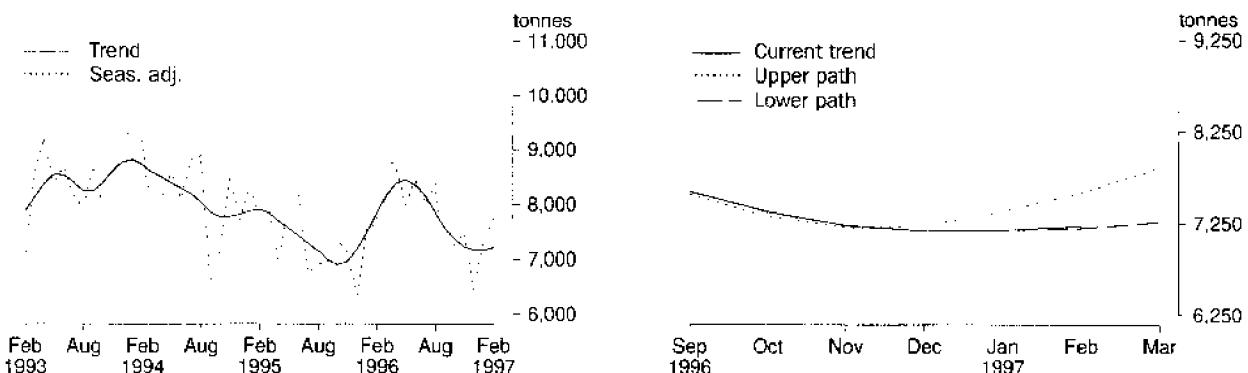
M29 AUTOMOTIVE DIESEL OIL(b) (seasonally adjusted series average movement 5%)



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

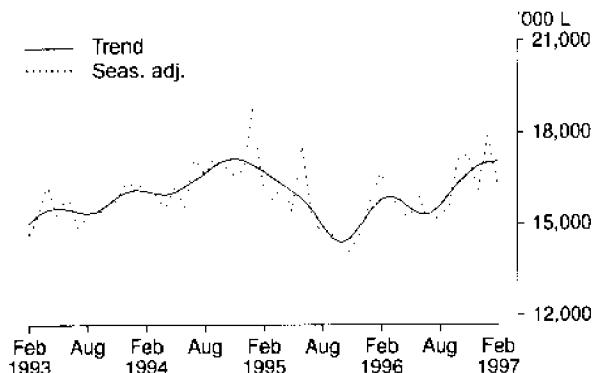


M31 RIGID PVC TUBES, PIPES AND HOSES (seasonally adjusted series average movement 9%)

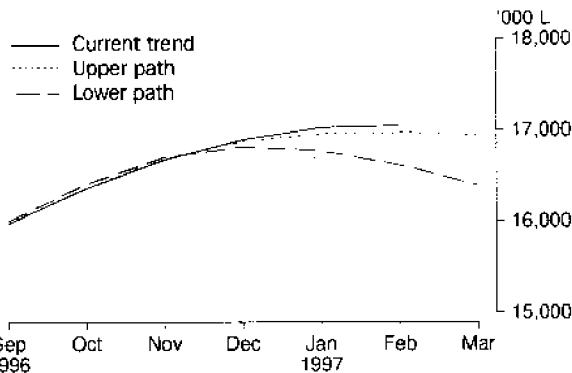
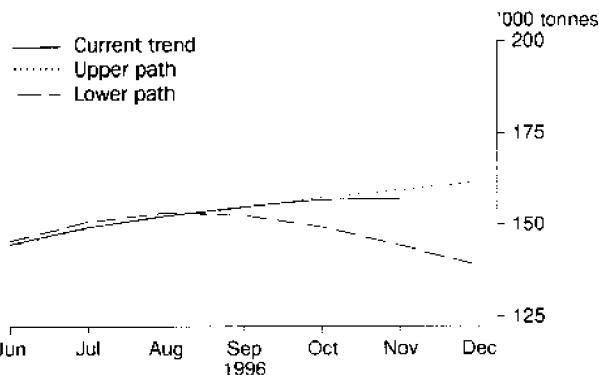
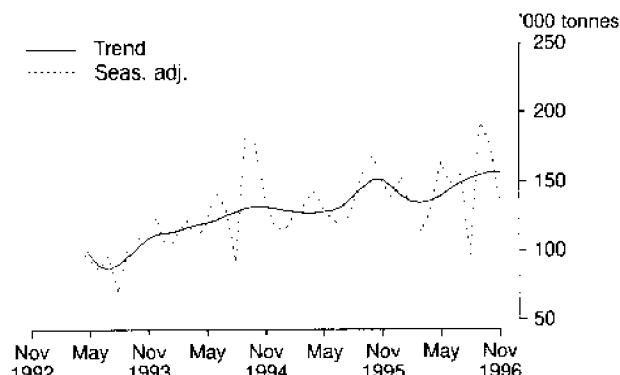
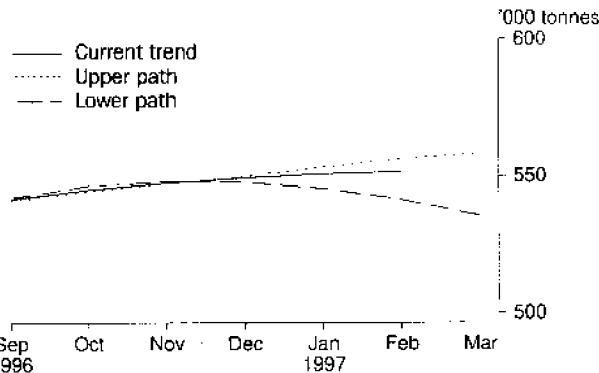
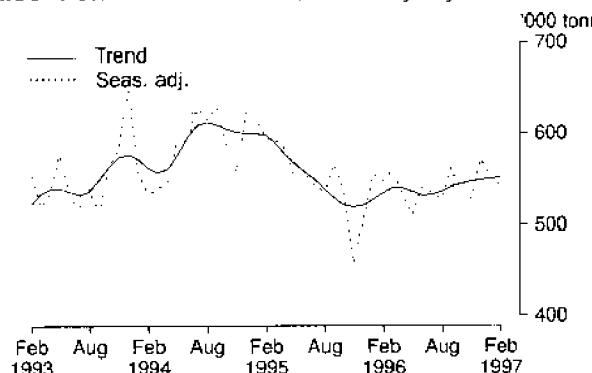
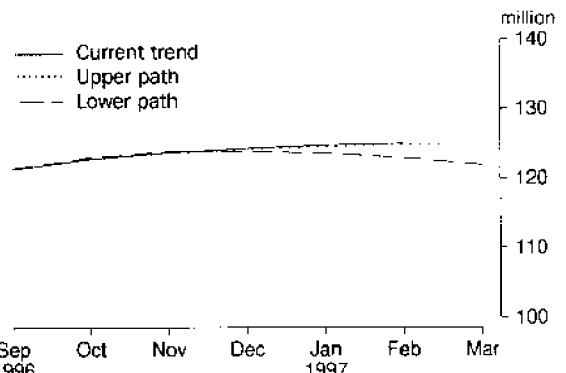
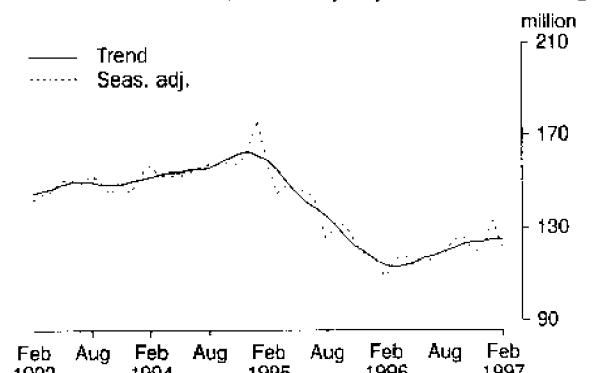


For footnotes see page 23.

Longer term trend (a)

M33 PAINT (seasonally adjusted series average movement 4%)

Short-term sensitivity analysis

**M34 SUPERPHOSPHATES** (seasonally adjusted series average movement 15%)**M35 PORTLAND CEMENT** (seasonally adjusted series average movement 5%)**M36 CLAY BRICKS** (seasonally adjusted series average movement 3%)

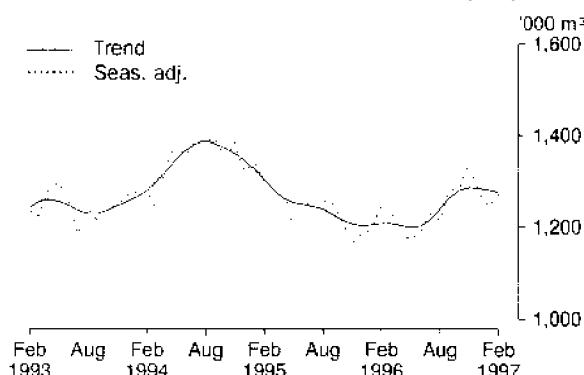
For footnotes see page 23.

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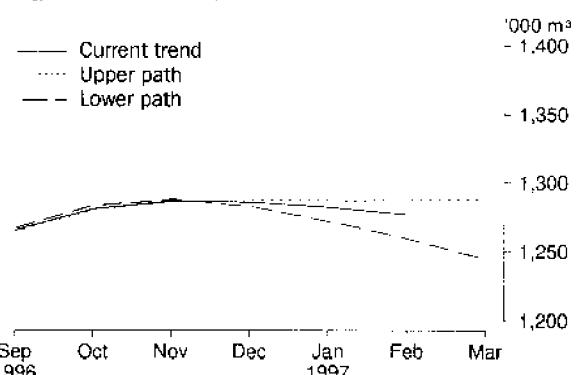
MONTHLY PRODUCTION *continued*

Longer term trend(a)

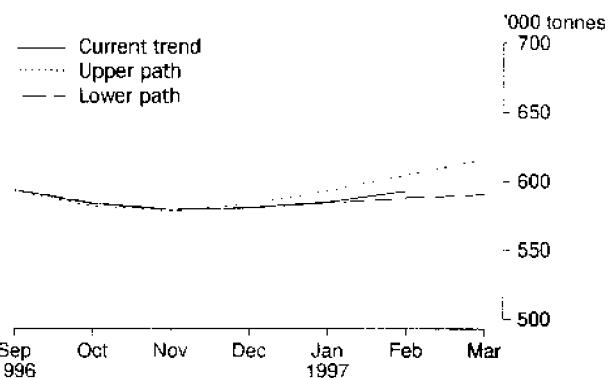
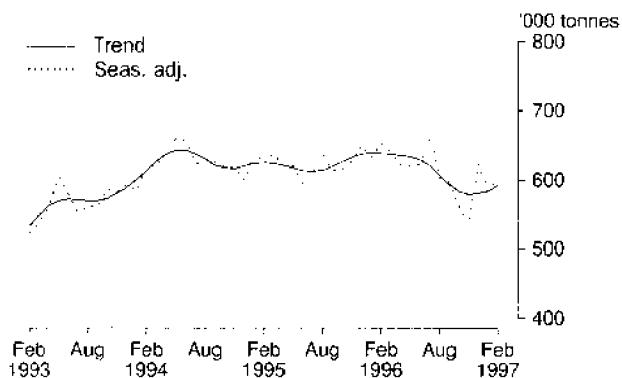
M37 READY MIXED CONCRETE (seasonally adjusted series average movement 4%)



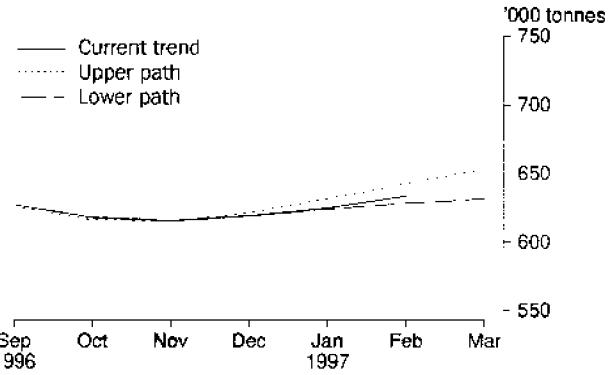
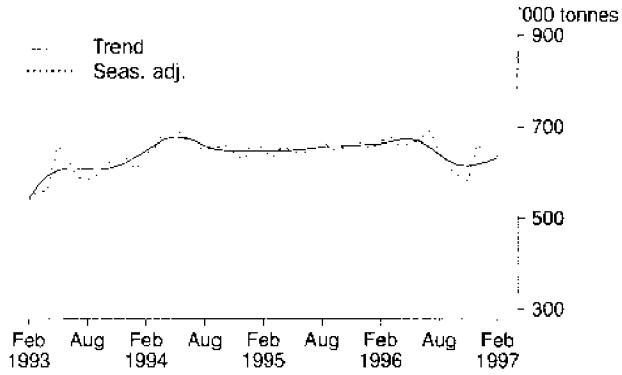
Short-term sensitivity analysis



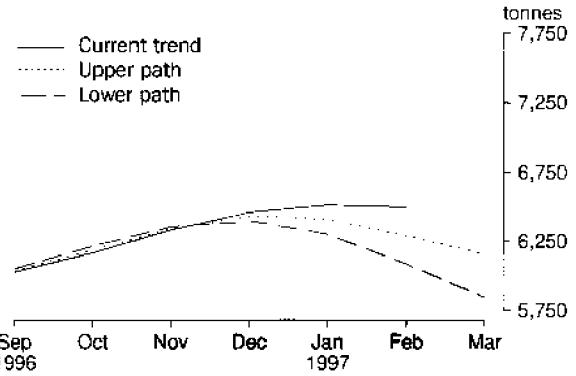
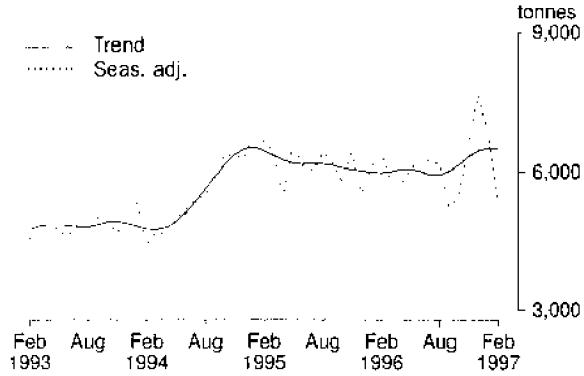
M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(c) (seasonally adjusted series average movement 5%)



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

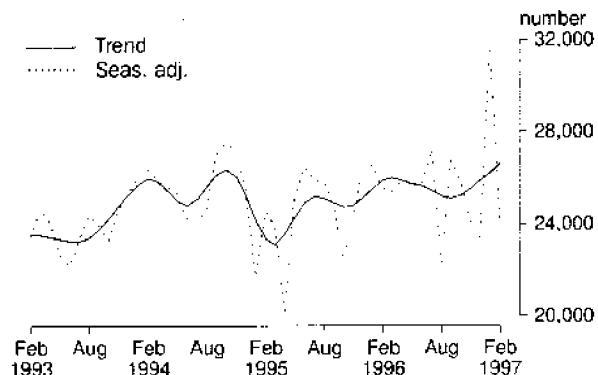


M40 INSULATED WIRE (seasonally adjusted series average movement 7%)

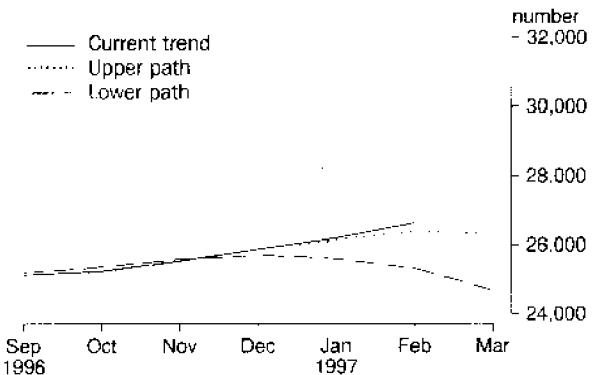
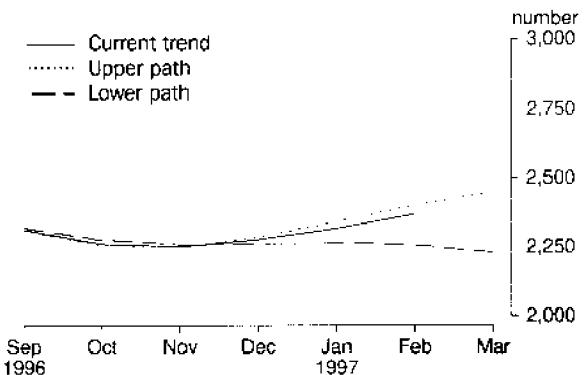
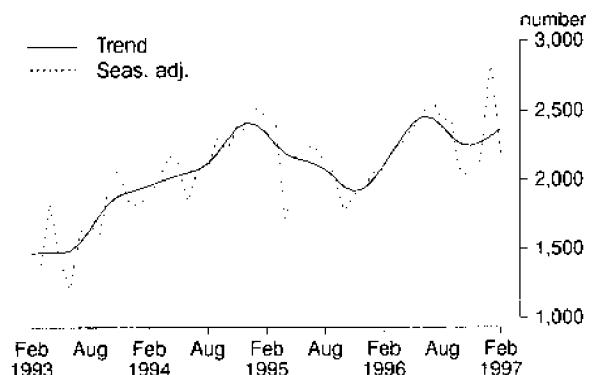
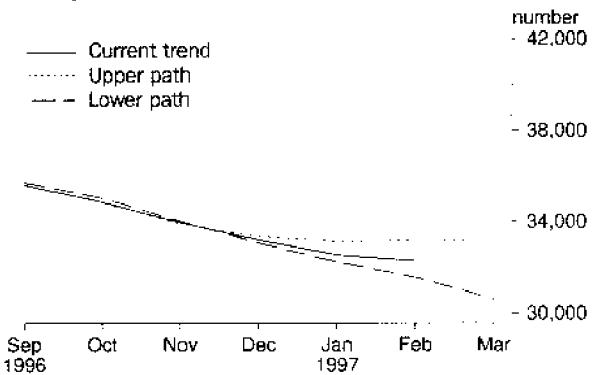
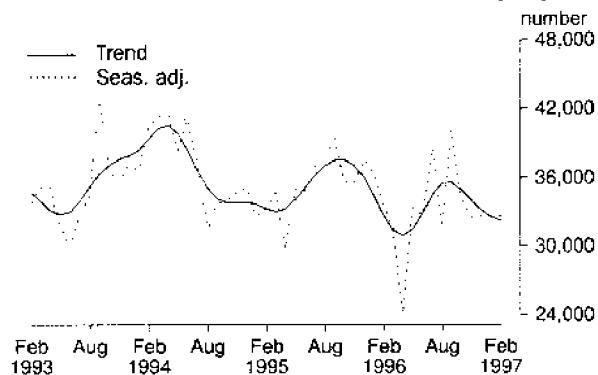
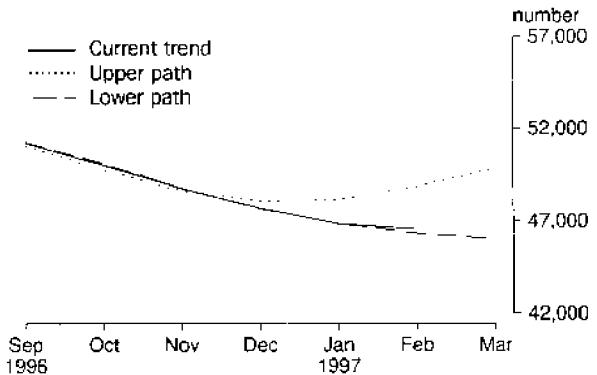
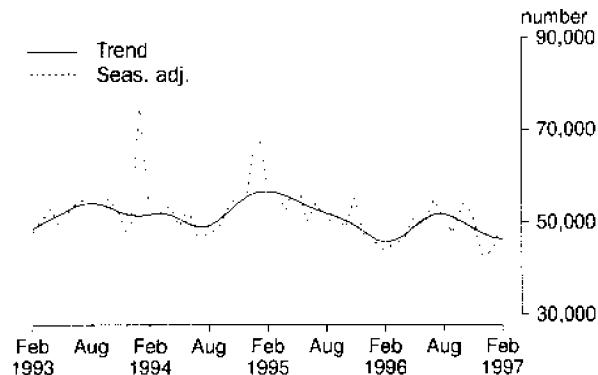


For footnotes see page 23.

Longer term trend (a)

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

Short-term sensitivity analysis

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

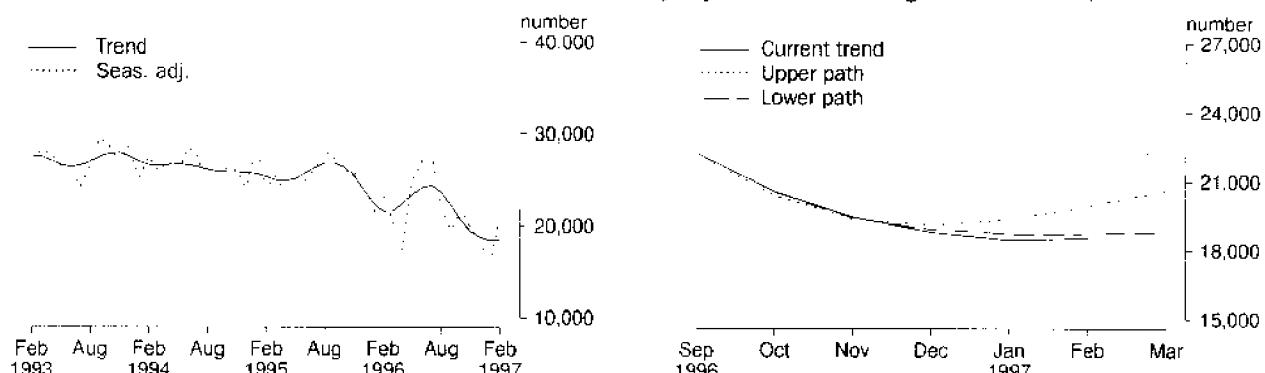
For footnotes see page 23.

M

MONTHLY PRODUCTION *continued*

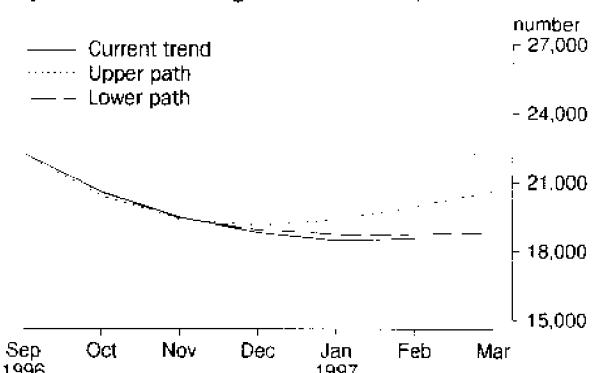
Longer term trend(a)

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

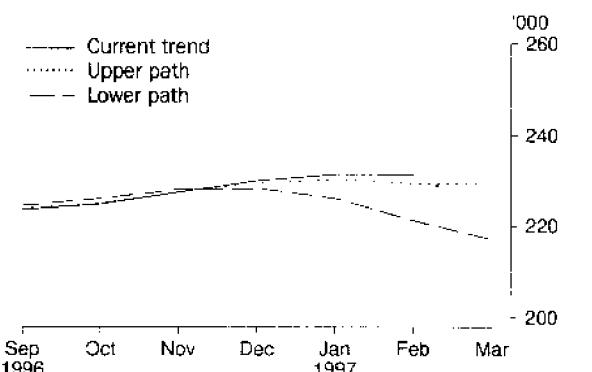
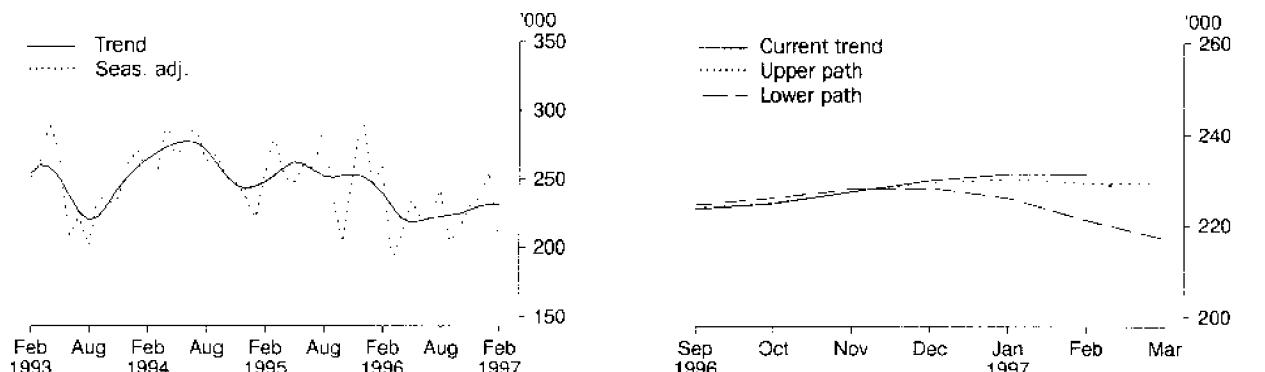


Short-term sensitivity analysis

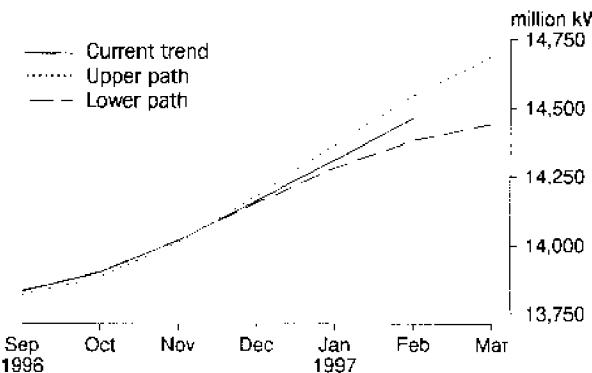
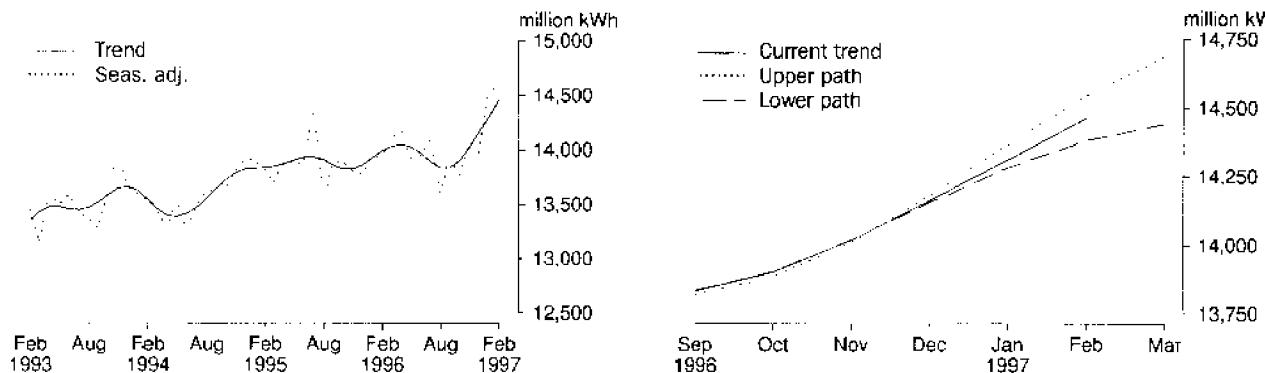
M46 DOMESTIC CLOTHES WASHING MACHINES (continued)



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%)

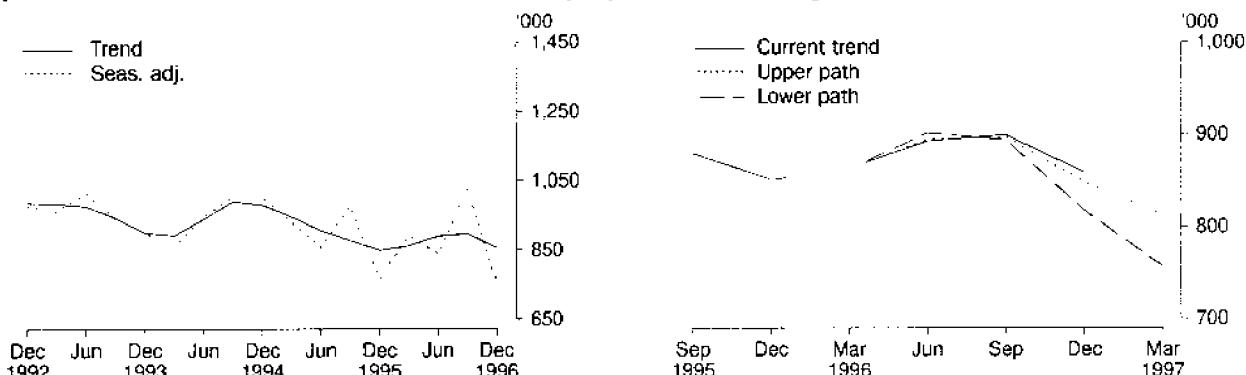
Graph is unavailable for publication this month. For information refer to the contact officer.

Q

QUARTERLY PRODUCTION

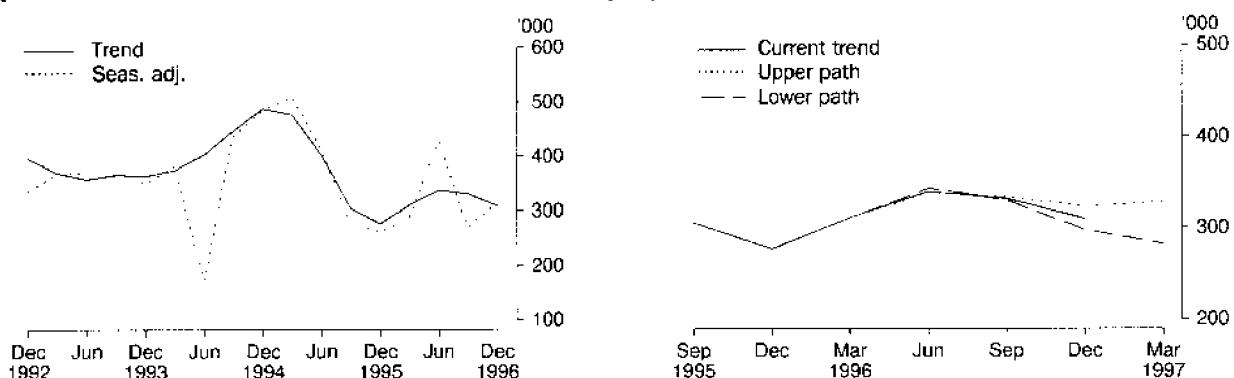
Longer term trend (a)

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

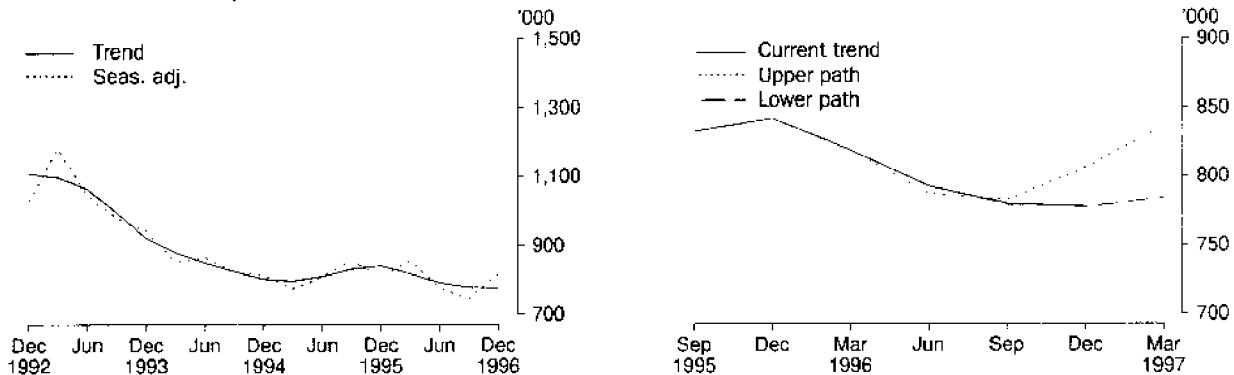


Short-term sensitivity analysis

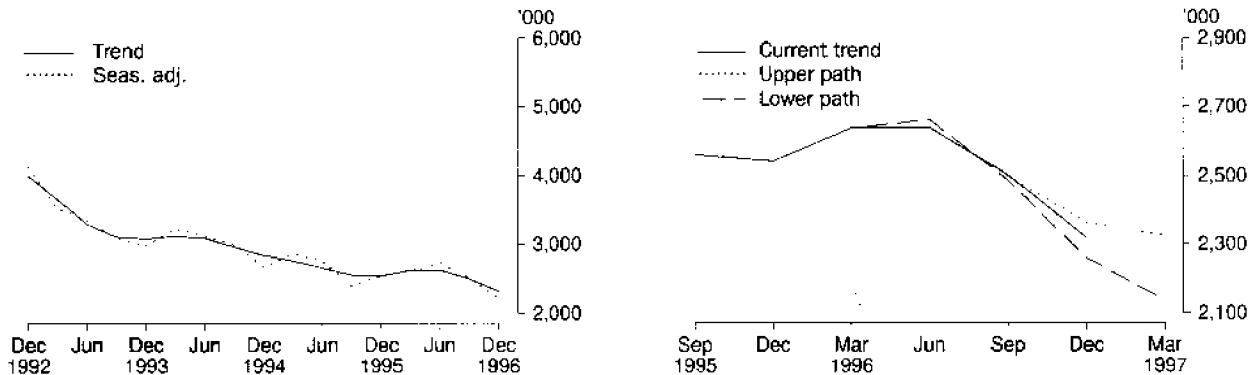
Q2 WOMEN'S AND GIRLS' LONG TROUSERS (seasonally adjusted series average movement 14%)



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.

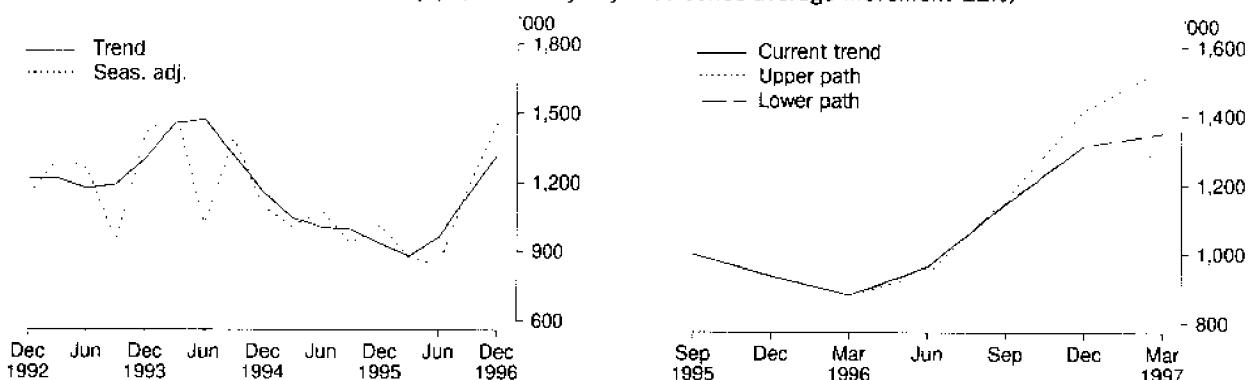
q

QUARTERLY PRODUCTION *continued*

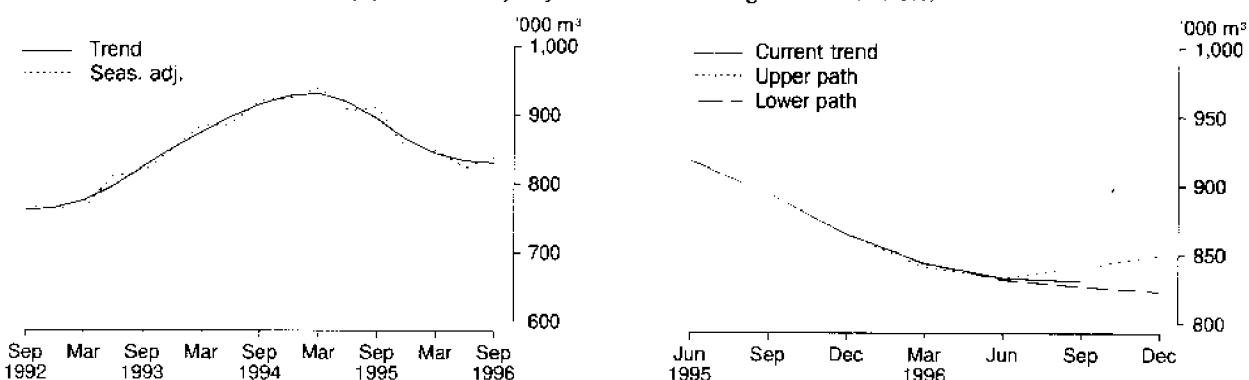
Longer term trend(a)

Short-term sensitivity analysis

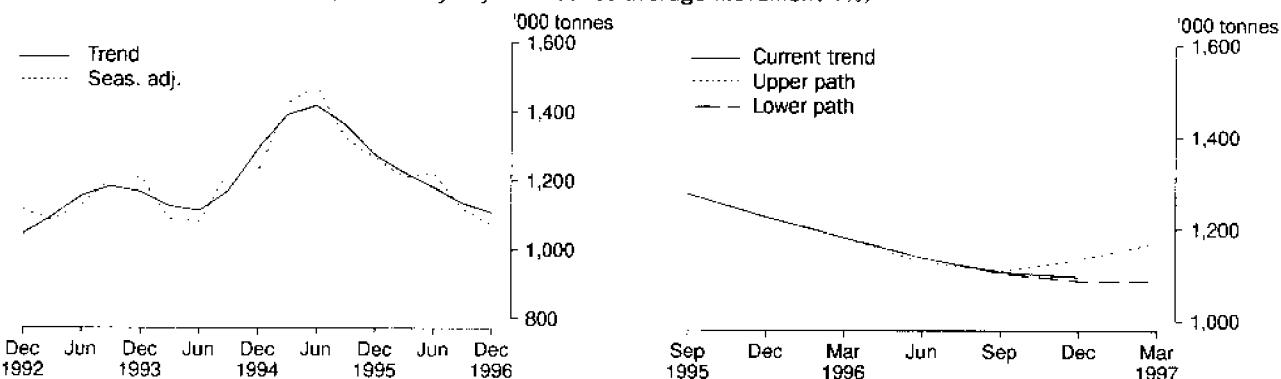
Q5 WOMEN'S SHIRTS AND BLOUSES(c) (seasonally adjusted series average movement 12%)



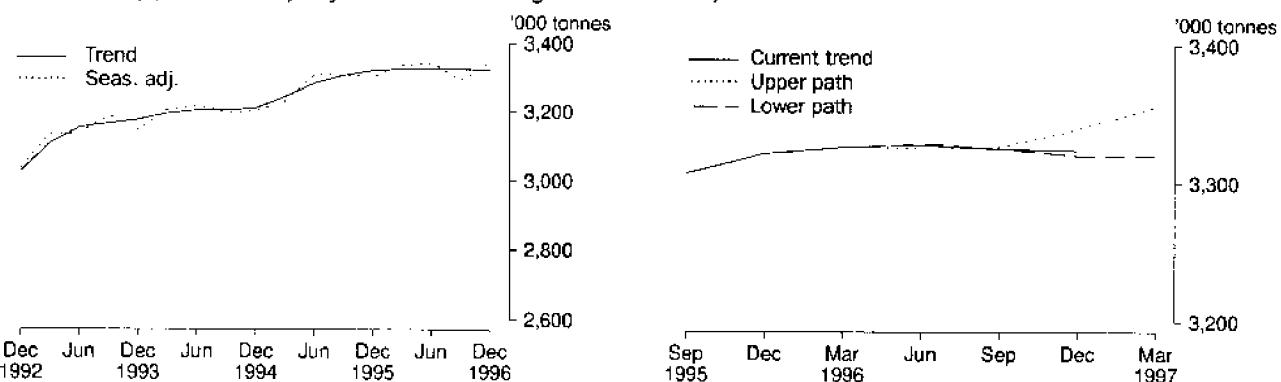
Q6 UNDRESSED SAWN TIMBER(b) (seasonally adjusted series average movement 3%)



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



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



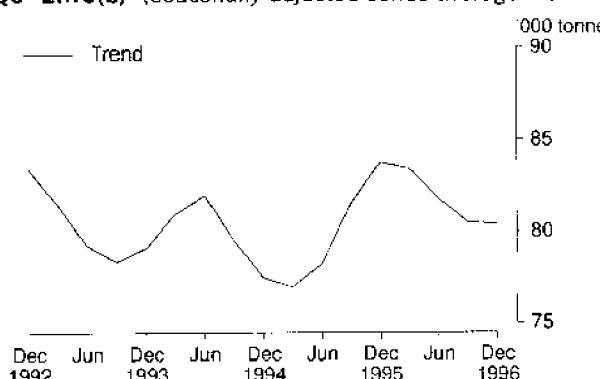
For footnotes see page 24.

Q

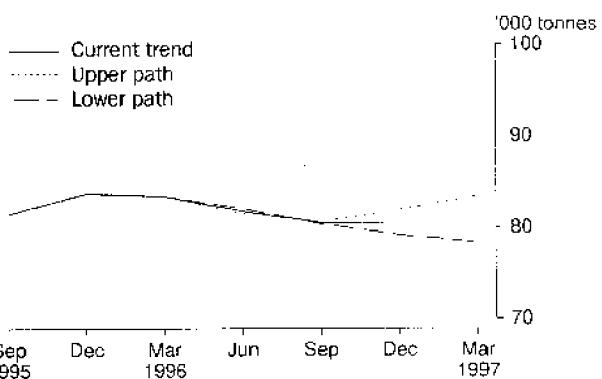
QUARTERLY PRODUCTION *continued*

Longer term trend(a)

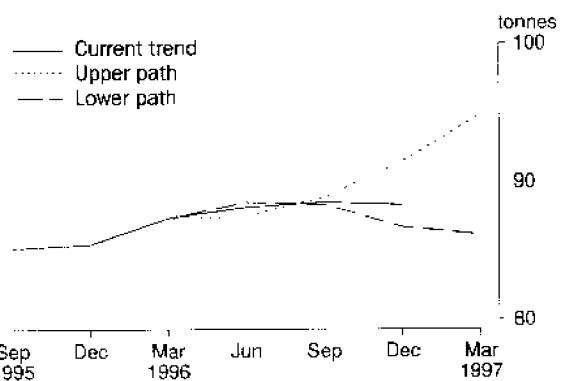
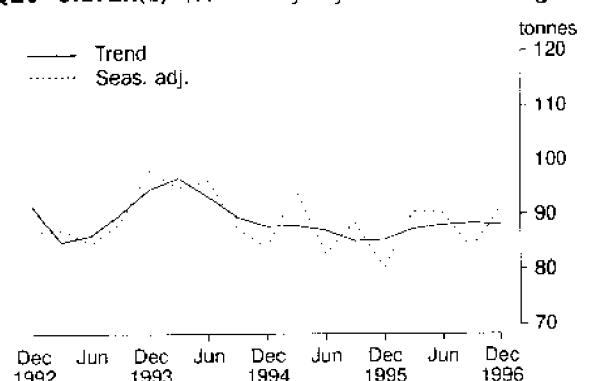
Q9 ZINC(b) (seasonally adjusted series average movement 6%)



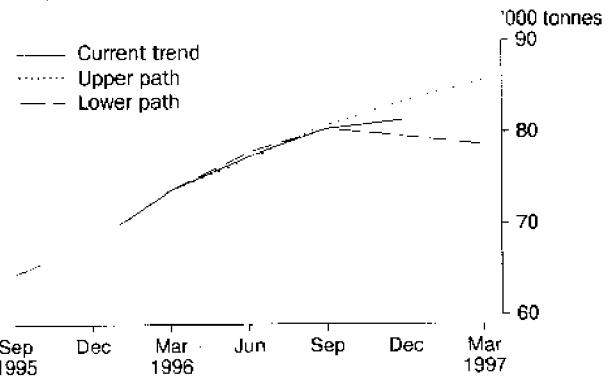
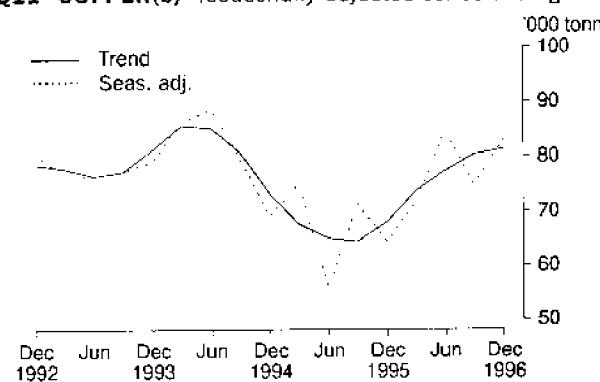
Short-term sensitivity analysis



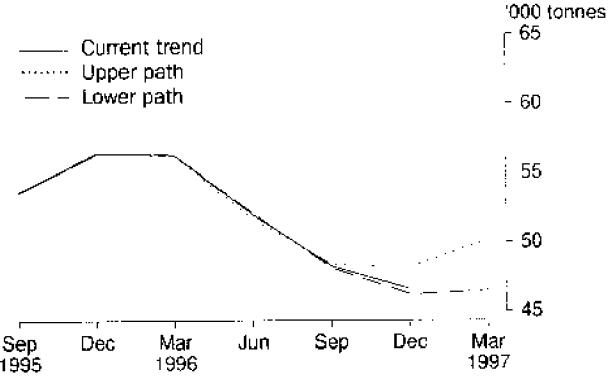
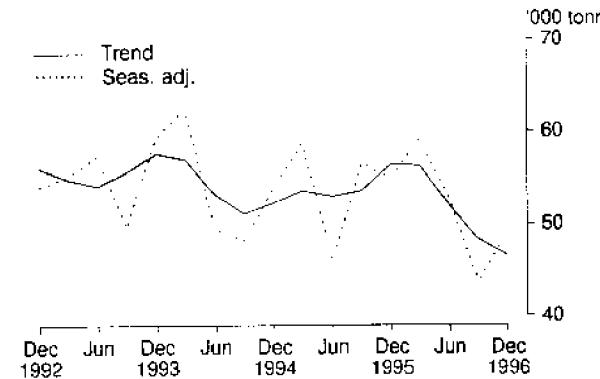
Q10 SILVER(b) (seasonally adjusted series average movement 9%)



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



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



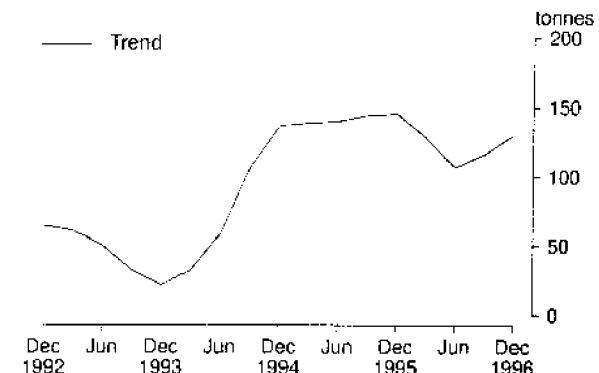
For footnotes see page 24.

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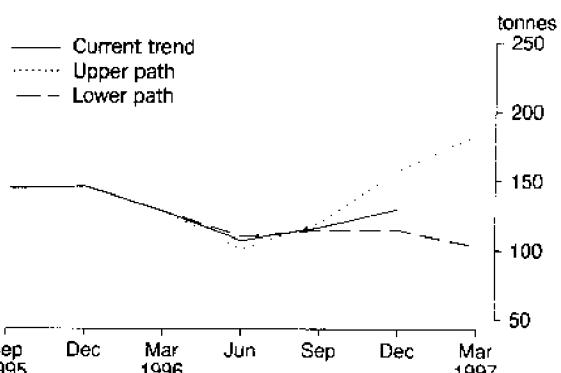
QUARTERLY PRODUCTION *continued*

Longer term trend (a)

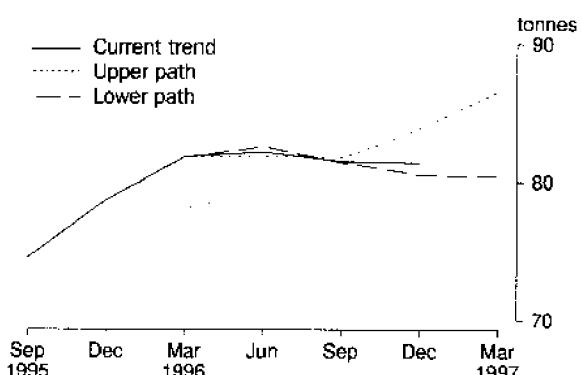
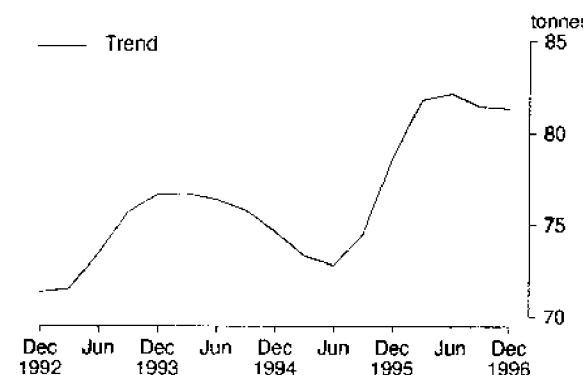
Q13 TIN(b) (seasonally adjusted series average movement 52%)



Short-term sensitivity analysis



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



For footnotes see page 24.

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

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

No.	Item and unit/Series(a)											prev. month	same month	prev. year
		June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb				
M1	Red meat (000 tonnes)													
	Original	196	203	197	199	225	217	190	r203	221	8.9	-1.2		
	Seasonally adjusted	205	204	194	199	204	203	210	r226	231	2.5	3.2		
	Trend	205	201	199	199	203	208	214	220	226	2.8	2.5		
M2	Chicken meat (tonnes)													
	Original	38 189	40 184	38 185	41 070	43 556	r37 799	r42 223	r41 386	38 269	-7.5	0.4		
	Seasonally adjusted	38 686	38 904	41 004	40 959	41 544	r40 645	r39 935	r40 015	40 690	1.7	4.7		
	Trend	39 076	39 588	40 161	40 619	40 802	40 730	40 576	40 426	40 228	-0.5	2.4		
M3	Cheese(b) (tonnes)													
	Original	12 118	11 811	15 960	26 343	30 988	29 673	27 994	n.y.a.	n.y.a.	-5.7	-5.3		
	Seasonally adjusted	24 036	20 373	19 886	21 713	20 651	20 542	21 865	n.y.a.	n.y.a.	6.4	-3.9		
	Trend	22 103	21 676	21 213	20 911	20 823	20 871	20 947	n.y.a.	n.y.a.	0.4	-3.1		
M4	Butter(b) (tonnes)													
	Original	8 562	6 355	8 665	16 458	18 003	20 062	18 193	n.y.a.	n.y.a.	-9.3	-5.4		
	Seasonally adjusted	17 107	14 528	13 893	13 978	11 501	11 998	11 432	n.y.a.	n.y.a.	-4.7	-5.6		
	Trend	14 658	14 629	14 151	13 409	12 639	11 954	11 282	n.y.a.	n.y.a.	-5.6	-2.1		
M5	Flour of wheat or of meslin (000 tonnes)													
	Original	122	128	126	132	127	130	128	126	131	4.1	9.7		
	Seasonally adjusted	118	130	118	131	124	125	142	134	136	1.6	14.7		
	Trend	123	123	124	126	128	130	133	135	137	1.7	14.1		
M6	Prepared foods from cereals (tonnes)													
	Original	7 758	7 012	8 991	8 722	8 713	9 274	6 096	r5 988	8 638	44.3	0.8		
	Seasonally adjusted	7 728	7 289	9 506	8 294	8 505	8 870	6 019	r6 503	8 930	37.3	1.8		
	Trend	8 204	8 254	8 343	8 330	8 163	7 896	7 646	7 484	7 335	-2.0	-14.9		
M7	Biscuits (tonnes)													
	Original	12 742	12 602	12 817	11 984	12 424	12 052	10 924	7 499	10 529	40.4	-7.0		
	Seasonally adjusted	12 400	11 855	11 922	10 673	11 365	10 967	12 503	11 517	10 936	-5.0	-2.1		
	Trend	11 969	11 818	11 614	11 467	11 406	11 415	11 449	11 466	11 457	-0.1	-0.8		
M8	Chocolate based confectionery (tonnes)													
	Original	9 302	9 852	11 148	9 962	10 375	10 363	8 461	6 684	9 699	45.1	4.7		
	Seasonally adjusted	9 366	9 750	9 498	9 735	9 000	9 238	8 640	10 291	9 547	-7.2	8.5		
	Trend	9 216	9 400	9 464	9 423	9 344	9 311	9 350	9 430	9 539	1.1	6.5		
M9	Other confectionery (tonnes)													
	Original	6 605	6 201	6 907	6 822	7 028	6 694	5 414	3 586	5 697	58.9	-0.2		
	Seasonally adjusted	6 244	5 864	5 891	6 148	6 267	5 590	5 776	6 124	6 109	-0.3	2.6		
	Trend	6 005	6 003	6 005	5 992	5 965	5 946	5 949	5 970	5 991	0.3	0.3		
M10	Malt (tonnes)													
	Original	54 107	50 339	51 910	50 375	50 817	48 372	46 904	46 496	40 764	-12.3	-18.1		
	Seasonally adjusted	55 918	52 208	51 025	52 030	52 350	44 076	47 475	48 766	39 103	-19.8	-18.0		
	Trend	50 916	51 762	51 979	51 364	50 000	48 270	46 572	44 981	43 466	-3.4	-6.1		
M11	Beer (megalitres)													
	Original	120	129	136	133	177	175	156	141	140	-0.9	9.5		
	Seasonally adjusted	150	140	141	140	153	145	128	146	154	5.1	14.1		
	Trend	146	145	144	143	143	143	144	145	146	0.8	3.9		
M12	Tobacco and cigarettes (tonnes)													
	Original	1 777	2 255	2 242	1 796	1 838	2 183	1 553	969	2 028	109.2	15.8		
	Seasonally adjusted	1 817	1 758	1 994	1 770	1 980	2 130	1 671	1 638	1 899	15.9	19.9		
	Trend	1 805	1 844	1 874	1 901	1 905	1 881	1 846	1 814	1 779	-1.9	11.8		
M13	Man-made fibre woven fabric (000 m²)													
	Original	11 011	12 258	13 061	12 598	15 479	13 502	r9 912	r6 933	12 124	74.9	-7.1		
	Seasonally adjusted	10 544	11 438	12 147	12 682	14 760	12 137	r12 041	r10 051	11 598	15.4	-3.6		
	Trend	11 483	11 914	12 396	12 699	12 708	12 471	12 057	11 593	11 149	-3.8	-3.5		
M14	Cotton woven fabric (000 m²)													
	Original	5 109	6 692	6 003	5 918	5 648	5 510	4 083	2 119	4 595	116.9	-21.2		
	Seasonally adjusted	4 713	6 882	5 134	5 371	5 415	4 870	4 915	4 628	4 566	-1.3	-16.9		
	Trend	5 298	5 474	5 573	5 468	5 263	5 046	4 852	4 674	4 621	-1.1	-17.5		
M15	Cotton yarn (tonnes)													
	Original	3 527	3 641	3 409	3 848	3 779	3 220	2 870	r2 124	3 257	53.3	-0.8		
	Seasonally adjusted	3 011	3 398	3 020	3 848	3 606	2 949	3 605	r3 288	3 299	0.3	1.6		
	Trend	3 139	3 239	3 345	3 414	3 430	3 411	3 379	3 345	3 325	-0.6	9.3		

For footnotes see page 23.

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MONTHLY PRODUCTION continued

No.	Item and unit/Series(a)	1996.....										Percentage changes between latest month shown and.....	
		June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	prev. month	same month	prev. year
M16 Wool yarn (tonnes)													
Original	1 483	1 646	1 577	1 569	1 847	1 613	1 344	1 032	1 554	50.6	-13.6		
Seasonally adjusted	1 525	1 437	1 440	1 464	1 524	1 590	1 631	1 467	1 552	5.8	-9.6		
Trend	1 512	1 475	1 469	1 488	1 516	1 539	1 554	1 561	1 561	-	-7.2		
M17 Wool woven fabric ('000 m²)													
Original	536	487	449	566	581	723	450	470	555	18.2	-20.9		
Seasonally adjusted	604	473	421	633	495	692	541	717	487	-32.1	-18.8		
Trend	491	500	520	547	571	591	603	608	604	-0.7	11.8		
M18 Textile floor coverings ('000 m²)													
Original	3 249	3 784	3 684	3 791	4 434	4 079	3 429	2 449	3 762	53.6	-7.3		
Seasonally adjusted	3 427	3 684	3 345	3 650	3 841	3 609	3 943	3 771	3 653	-3.1	-2.6		
Trend	3 518	3 513	3 555	3 624	3 693	3 741	3 769	3 779	3 791	0.3	3.2		
M19 Footwear ('000 pairs)													
Original	1 089	1 229	1 314	1 248	1 355	1 161	828	713	1 246	74.7	-6.0		
Seasonally adjusted	1 194	1 195	1 195	1 146	1 180	1 110	969	1 275	1 205	-5.4	-1.6		
Trend	1 201	1 192	1 175	1 153	1 136	1 131	1 135	1 148	1 165	1.5	-6.4		
M21 Newsprint (tonnes)													
Original	35 515	38 160	39 422	33 716	31 685	36 428	33 424	34 772	34 786	-	-13.8		
Seasonally adjusted	37 379	38 449	40 315	35 018	32 976	36 886	33 245	33 867	34 100	0.7	-10.8		
Trend	37 437	37 606	37 323	36 585	35 602	34 772	34 196	33 787	33 505	-0.8	-9.0		
M22 Wood pulp (tonnes)													
Original	76 614	74 031	85 486	71 242	75 903	92 247	75 439	81 657	76 853	-5.9	-7.4		
Seasonally adjusted	77 345	76 196	80 106	71 744	81 984	87 169	78 890	79 265	79 306	0.1	-2.0		
Trend	78 856	78 541	78 432	78 832	79 618	80 500	80 893	80 861	80 530	-0.4	-1.1		
M23 Unlaminated particle board ('000 m³)													
Original	67	63	62	65	78	74	50	47	65	38.9	-10.9		
Seasonally adjusted	68	61	58	61	65	70	60	79	68	-13.9	-6.1		
Trend	64	63	62	62	64	66	68	70	72	2.1	4.0		
M25 Paperboard containers ('000 tonnes)													
Original	81 107	99 703	94 662	95 312	109 883	103 329	86 920	87 546	92 407	5.6	2.0		
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	1 565	1 694	1 438	1 464	1 416	1 439	1 523	n.y.a.	n.y.a.	5.8	-0.9		
Seasonally adjusted	1 583	1 585	1 443	1 495	1 432	1 530	1 496	n.y.a.	n.y.a.	-2.3	-0.9		
Trend	1 548	1 529	1 509	1 493	1 484	1 481	1 478	n.y.a.	n.y.a.	-0.2	-2.9		
M27 Fuel oil(b) (megalitres)													
Original	165	194	93	147	119	164	139	n.y.a.	n.y.a.	-15.5	-33.6		
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	145	142	139	138	138	141	144	n.y.a.	n.y.a.	1.8	-12.5		
M28 Aviation turbine fuel(b) (megalitres)													
Original	359	443	369	447	502	481	401	n.y.a.	n.y.a.	-16.6	-13.4		
Seasonally adjusted	390	456	366	440	446	499	355	n.y.a.	n.y.a.	-28.7	-18.3		
Trend	406	412	421	429	433	433	429	n.y.a.	n.y.a.	-0.9	2.8		
M29 Automotive diesel oil(b) (megalitres)													
Original	1 082	1 078	895	1 103	1 032	1 111	1 135	n.y.a.	n.y.a.	2.2	1.4		
Seasonally adjusted	1 110	1 029	884	1 127	1 032	1 123	1 063	n.y.a.	n.y.a.	-5.3	1.6		
Trend	1 035	1 035	1 037	1 042	1 054	1 066	1 080	n.y.a.	n.y.a.	1.3	6.7		
M30 Plastics in primary forms ('000 tonnes)													
Original	81	100	108	100	96	92	94	98	100	1.7	-1.8		
Seasonally adjusted	88	88	107	96	86	96	103	108	104	-3.7	-0.5		
Trend	99	96	94	94	96	98	100	103	104	1.6	0.9		
M31 Rigid PVC tubes, pipes and hoses (tonnes)													
Original	8 780	9 439	8 944	6 847	7 186	7 653	5 993	4 407	8 219	86.5	-6.1		
Seasonally adjusted	8 444	8 021	8 392	7 233	7 281	7 496	6 445	7 316	7 765	6.1	1.4		
Trend	8 361	8 143	7 868	7 594	7 379	7 229	7 167	7 177	7 220	0.6	-8.0		
M32 Polyethylene bottles up to two litres (million)													
Original	134	130	147	158	161	189	198	163	171	5.2	5.4		
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.

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

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

No.	Item and unit/Series(a)											prev. month	same month	prev. year
		June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb				
M33 Paint ('000 litres)														
Original	14 627	15 253	15 662	15 649	18 331	19 014	15 522	15 667	16 021		2.3		-4.1	
Seasonally adjusted	15 907	14 858	15 281	15 525	17 103	17 303	16 027	17 879	16 274		-9.0		-2.5	
Trend	15 325	15 339	15 590	15 978	16 364	16 679	16 894	17 023	17 048		0.1		7.9	
M34 Superphosphates ('000 tonnes)														
Original	101	85	45	103	187	173	n.p.	n.p.	151		n.p.		-11.8	
Seasonally adjusted	148	158	96	193	178	136	n.p.	n.p.	117		n.p.		-8.8	
Trend	145	149	153	155	157	157	n.p.	n.p.	n.p.		n.p.		n.p.	
M35 Portland cement ('000 tonnes)														
Original	559	564	582	561	566	586	540	417	504		20.8		-5.4	
Seasonally adjusted	542	535	529	562	537	529	572	552	543		1.7		-1.0	
Trend	533	534	537	542	545	548	549	551	552		0.1		2.8	
M36 Clay bricks (million)														
Original	117	126	128	126	137	122	110	91	116		28.0		8.0	
Seasonally adjusted	116	116	119	125	126	120	120	133	121		-8.8		11.8	
Trend	117	118	120	121	123	124	124	125	125		0.2		9.7	
M37 Ready mixed concrete ('000 m³)														
Original	1 157	1 319	1 320	1 272	1 438	1 404	1 103	1 002	1 203		20.0		-2.8	
Seasonally adjusted	1 193	1 229	1 214	1 280	1 286	1 335	1 278	1 246	1 273		2.2		2.1	
Trend	1 202	1 217	1 241	1 265	1 281	1 287	1 286	1 282	1 277		-0.4		5.7	
M38 Basic iron, spiegeleisen and sponge iron(c) ('000 tonnes)														
Original	620	678	627	611	578	544	612	580	548		-5.5		-10.3	
Seasonally adjusted	624	663	604	598	561	534	623	585	603		3.1		-7.7	
Trend	629	620	607	594	583	579	581	585	593		1.4		-7.2	
M39 Blooms and slabs of iron or steel(c) ('000 tonnes)														
Original	658	696	666	633	626	590	661	631	590		-6.5		-4.5	
Seasonally adjusted	670	694	648	611	593	581	665	625	638		2.0		-4.6	
Trend	669	657	641	627	618	616	619	625	634		1.4		-4.7	
M40 Insulated wire (tonnes)														
Original	6 037	6 604	6 426	5 801	6 143	7 160	6 252	4 025	5 597		39.1		-16.0	
Seasonally adjusted	6 310	6 216	6 191	5 264	5 490	6 593	7 666	6 767	5 366		-20.7		-16.0	
Trend	6 015	5 931	5 934	6 024	6 169	6 337	6 466	6 515	6 500		-0.2		8.8	
M41 Cars and station wagons (no.)														
Original	25 310	30 701	25 747	28 863	29 916	26 149	19 124	15 828	23 717		49.8		-11.5	
Seasonally adjusted	25 720	27 208	22 334	26 777	25 848	24 109	23 351	31 783	24 062		-24.3		-5.8	
Trend	25 679	25 473	25 243	25 144	25 261	25 551	25 905	26 226	26 644		1.6		2.8	
M42 Vehicles for goods and materials (no.)														
Original	2 419	2 830	2 714	2 465	2 397	2 227	1 677	1 432	2 122		48.2		-0.6	
Seasonally adjusted	2 478	2 572	2 437	2 432	2 002	2 090	2 145	2 859	2 198		-23.1		5.6	
Trend	2 462	2 448	2 386	2 312	2 261	2 252	2 278	2 318	2 368		12.5			
M43 Telephones ('000)														
Original	76	101	119	120	115	123	84	n.p.	n.p.		n.p.		n.p.	
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	27 261	35 700	29 593	37 143	40 414	35 942	31 257	35 171	33 657		-4.3		-9.3	
Seasonally adjusted	32 761	38 557	31 683	40 168	34 102	32 567	32 668	32 643	32 661		0.1		-2.9	
Trend	32 912	34 531	35 579	35 645	34 882	33 974	33 212	32 556	32 316		-0.7		-1.3	
M45 Water heaters (no.)														
Original	50 558	60 777	55 840	50 761	61 774	56 240	39 683	20 348	49 161		141.6		10.3	
Seasonally adjusted	49 603	55 091	50 901	47 641	54 153	51 776	42 799	43 914	50 406		14.8		14.2	
Trend	50 693	51 749	51 936	51 226	50 026	48 791	47 737	46 891	46 582		-0.7		1.6	
M46 Domestic clothes washing machines (no.)														
Original	27 380	31 489	26 685	21 682	24 860	22 056	15 492	8 093	20 726		156.1		-12.2	
Seasonally adjusted	27 200	27 587	21 813	19 629	21 854	19 924	18 235	15 856	21 340		34.6		-8.0	
Trend	24 251	24 415	23 657	22 202	20 572	19 445	18 816	18 455	18 538		0.5		-14.2	
M47 Electric motors ('000)														
Original	213	228	254	214	248	249	201	168	219		30.2		-22.5	
Seasonally adjusted	221	223	242	203	214	231	236	256	208		-18.7		19.9	
Trend	219	221	223	224	225	227	230	231	231		-3.3			

For footnotes see page 23.

1

MONTHLY PRODUCTION *continued*

No.	Item and unit/Series(a)	1996.....										Percentage changes between latest month shown and.....	
		June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	prev. month	same month	prev. year
M48 Electricity (million kWh)													
	Original	14 366	15 343	14 668	13 730	13 733	13 460	13 569	14 418	13 421	-6.9	0.5	
	Seasonally adjusted	13 950	14 101	13 602	13 911	13 770	14 046	13 969	14 590	14 519	-0.5	4.1	
	Trend	13 967	13 892	13 835	13 834	13 903	14 020	14 163	14 310	14 464	1.1	3.4	
M49 Gas (terajoules)													
	Original	58 615	65 895	62 709	55 103	50 582	48 591	47 218	46 011	42 818	-6.9	-2.6	
	Seasonally adjusted	50 295	53 308	52 420	50 874	49 609	52 435	55 426	57 643	53 032	-8.0	0.6	
	Trend	51 578	51 306	51 264	51 575	52 198	52 989	53 852	54 618	55 313	1.3	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....	
												prev. quarter	same quarter
		Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	prev. year	Dec	prev. year
Q1	Men's and boys' long trousers ('000)												
	Original	987	822	944	1 013	753	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	3 337	0.1	1.2	
	Seasonally adjusted	3 204	3 232	3 308	3 307	3 302	3 337	3 345	3 293	3 344	1.6	1.3	
	Trend	3 210	3 245	3 284	3 307	3 321	3 326	3 328	3 325	3 324	—	0.1	
Q9	Zinc(b) ('000 tonnes)												
	Original	78	72	81	82	85	81	82	82	81	-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	77	78	82	84	83	82	81	80	-0.1	-4.0	
Q10	Silver(b) (tonnes)												
	Original	79	93	89	89	75	90	97	84	85	1.2	13.3	
	Seasonally adjusted	84	96	83	89	80	91	90	84	91	9.0	13.8	
	Trend	88	88	87	85	85	87	88	89	88	-0.2	3.4	
Q11	Copper(b) ('000 tonnes)												
	Original	68	71	55	78	63	68	83	82	81	-1.2	28.6	
	Seasonally adjusted	69	75	56	71	64	72	84	75	83	11.0	29.0	
	Trend	73	68	65	64	68	74	77	80	81	1.2	19.6	
Q12	Lead(b) ('000 tonnes)												
	Original	55	53	49	57	56	54	56	r44	50	13.6	-10.7	
	Seasonally adjusted	54	59	46	56	55	59	53	r44	49	12.2	-10.7	
	Trend	52	54	53	54	56	56	52	48	47	-3.6	-17.4	
Q13	Tin(b) (tonnes)												
	Original	135	180	66	165	160	90	135	100	135	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	136	138	140	144	145	128	107	116	130	11.5	-10.7	
Q14	Gold(b) (tonnes)												
	Original	71	74	74	75	75	85	83	81	81	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	75	73	73	74	79	82	82	81	81	-0.1	3.4	

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

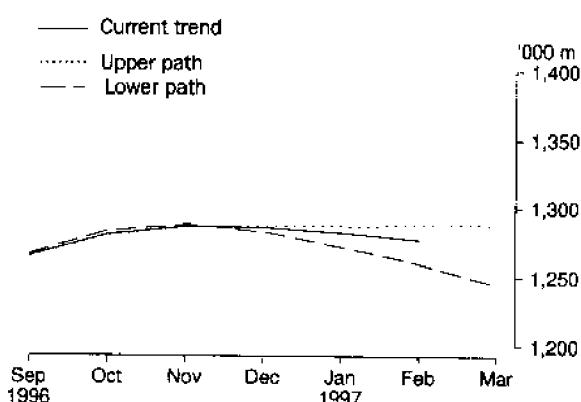
M 37 READY MIXED CONCRETE ('000 m³)

WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:

TREND as PUBLISHED	WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:			
	1 1 273 <i>i.e. the same as Feb 1997</i>	2 1 324 <i>i.e. rises by 4%</i>	3 1 222 <i>i.e. falls by 4%</i>	4 1 328 <i>i.e. same trend for Feb and Mar</i>
1996				
December	1 286	1 285	1 287	1 283
1997				
January	1 282	1 280	1 287	1 273
February	1 277	1 274	1 288	1 261
March (new)	—	1 266	1 288	1 247
				1 289

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



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

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.

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

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

- *Manufacturing Production, Australia: Principal Commodities Produced, 1989-90* (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.

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

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