



August 1996

EMBARGOED UNTIL 11:30 AM WED 2 OCTOBER 1996

# Manufacturing Production

## Australia

# NOTES

## FORTHCOMING ISSUES

<i>ISSUE</i>	<i>RELEASE DATE</i>
September 1996	31 October 1996
October 1996	3 December 1996
November 1996	7 January 1997

## IN THIS ISSUE

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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 24.

From July 1996, the definition of the series 'M49 Gas' has been expanded to include gas production for distribution via natural gas pipelines which service a single user.

Data for the series 'M32 Polyethylene bottles up to two litres' have been removed from this issue, because the data are subject to significant revisions. The series will be re-inserted when these revisions are available.

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## SYMBOLS AND OTHER USAGES

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, 26 showed rising production trends, 19 showed falling trends while 13 were relatively stable.

	Indicators available	PUBLISHED PRODUCTION TREND:		
		Rising	Falling	Stable
June 1996 issue	57	22	23	12
July 1996 issue	58	31	19	8
August 1996 issue	58	26	19	13

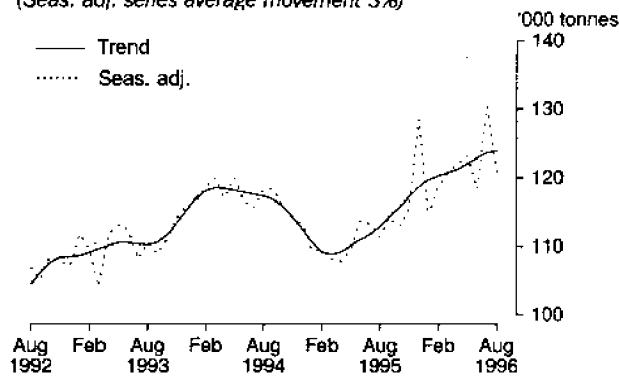
## SERIES TRENDS

Two of the more notable trends were production of Flour of wheat or of meslin and Prepared foods from cereals. Flour of wheat or of meslin production was stable (rising 0.2%) in August 1996, having previously risen every month since March 1995. The trend will fall in September 1996 unless the seasonally adjusted series rises by more than 2% (the average movement for this series is 3%).

Production of prepared foods from cereals rose in August 1996, having previously fallen every month since January 1996. This series will require a fall in the seasonally adjusted series of more than 18% for the trend to fall in September 1996 (the average movement for this series is 8%).

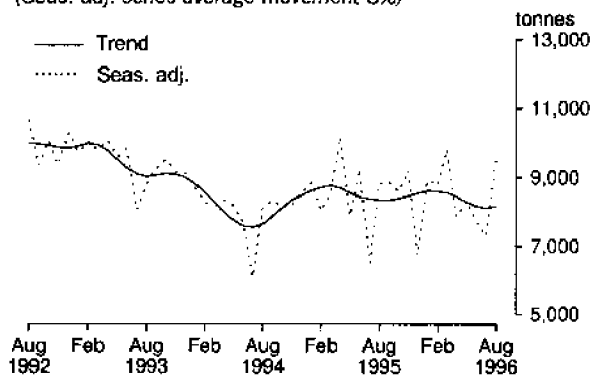
### M5 FLOUR OF WHEAT OR OF MESLIN

(Seas. adj. series average movement 3%)



### M6 PREPARED FOODS FROM CEREALS

(Seas. adj. series average movement 8%)

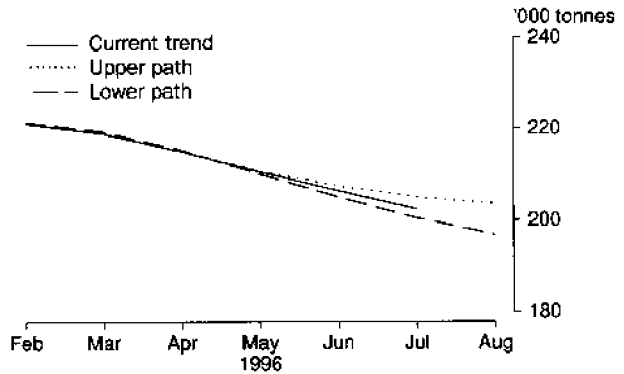
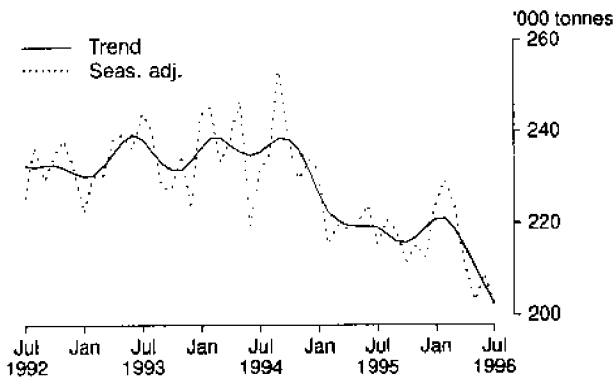


# M MONTHLY PRODUCTION

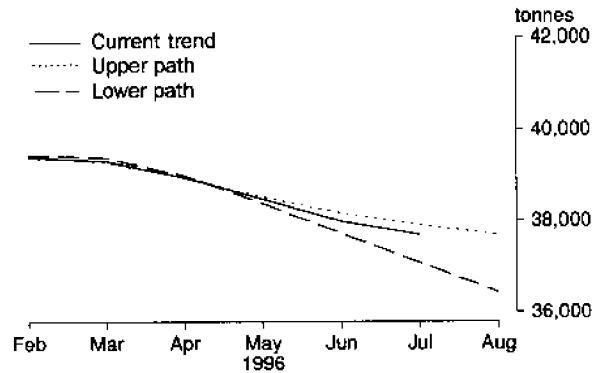
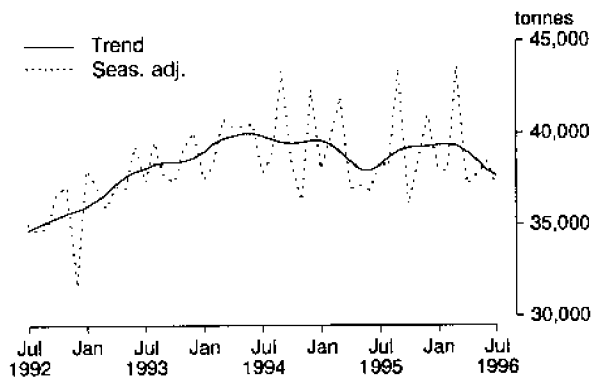
## Longer term trend(a)

## Short-term sensitivity analysis

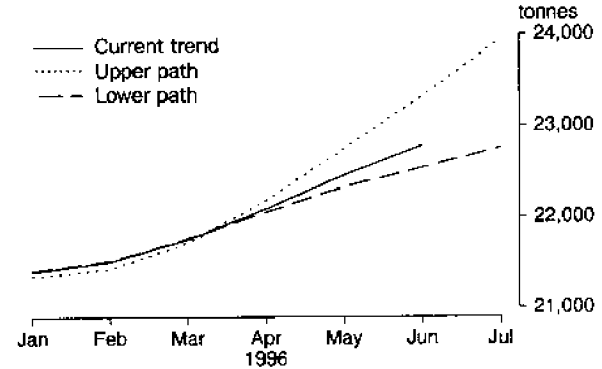
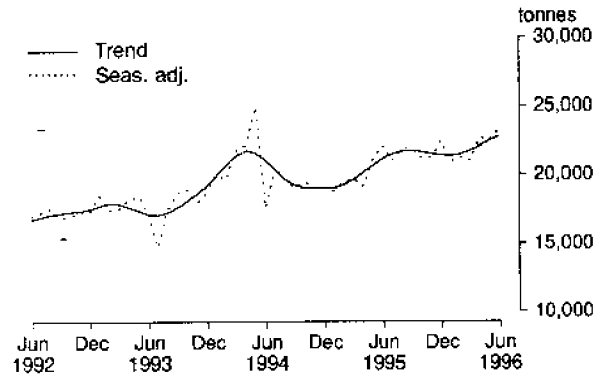
### M1 RED MEAT (seasonally adjusted series average movement 4%)



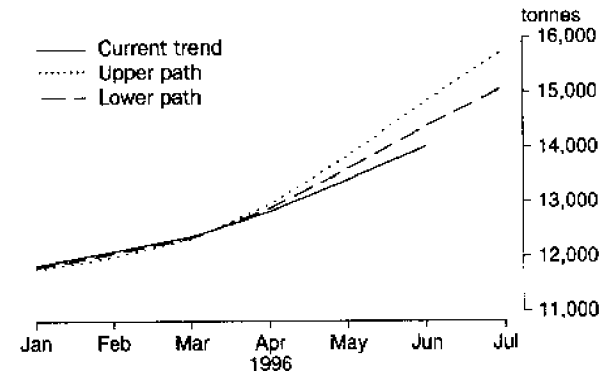
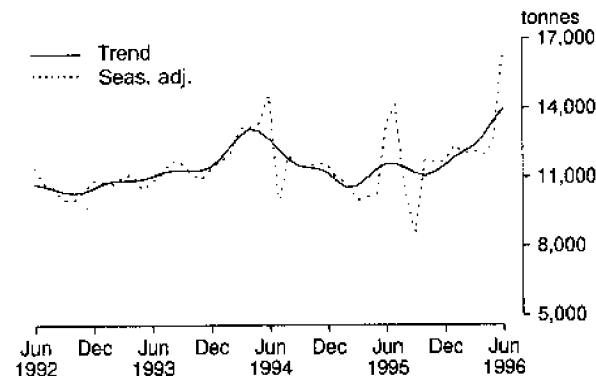
### M2 CHICKEN MEAT (seasonally adjusted series average movement 4%)



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



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

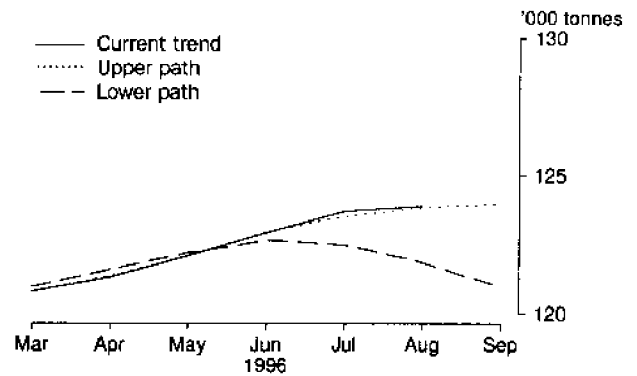
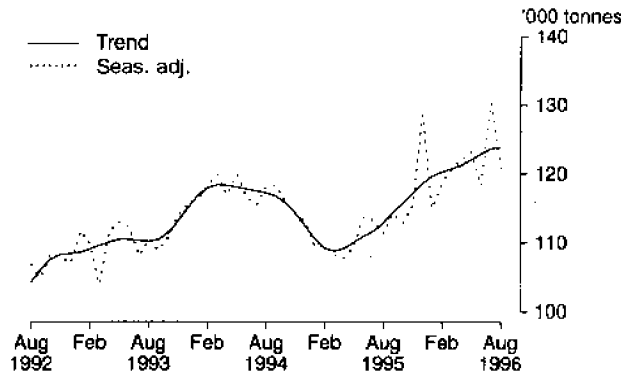


For footnotes see page 23.

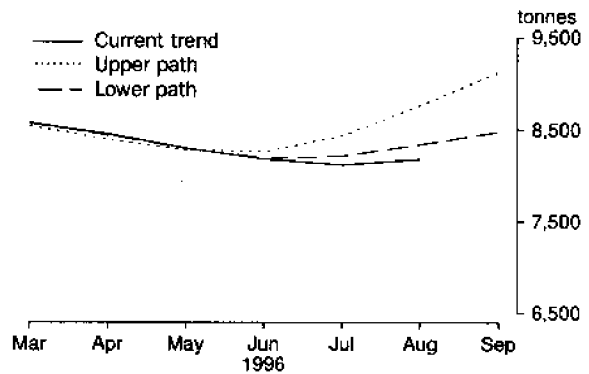
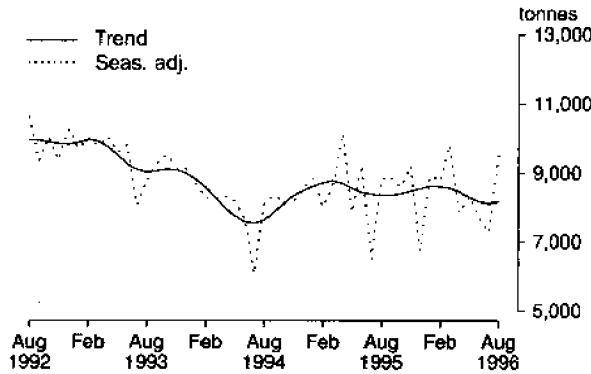
Longer term trend(a)

Short-term sensitivity analysis

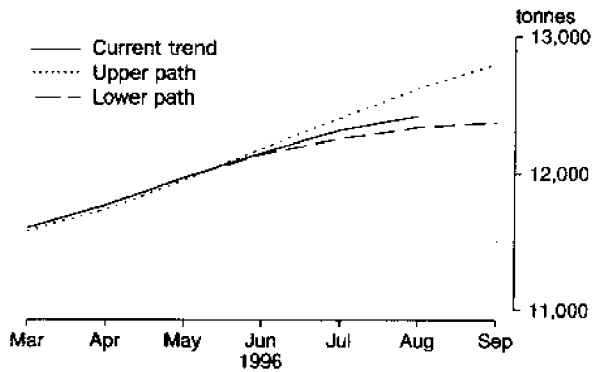
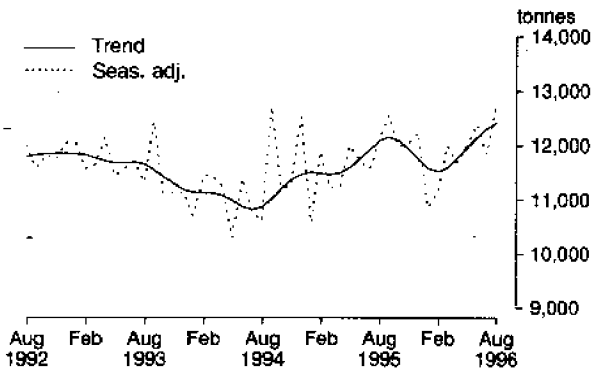
**M5 FLOUR OF WHEAT OR OF MESLIN** (seasonally adjusted series average movement 3%)



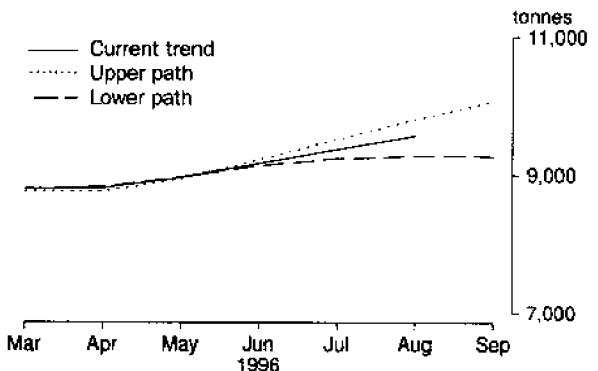
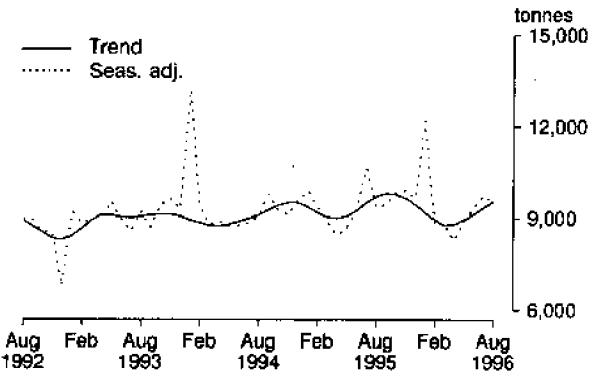
**M6 PREPARED FOODS FROM CEREALS** (seasonally adjusted series average movement 8%)



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



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

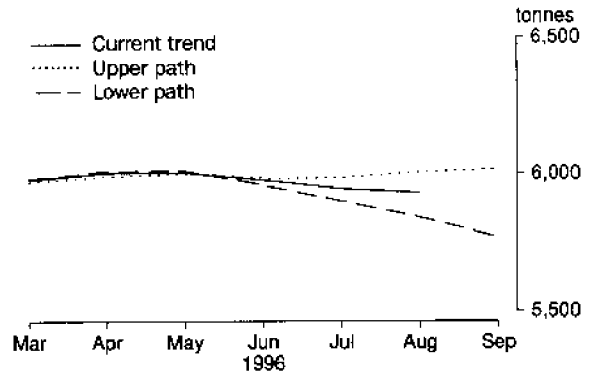
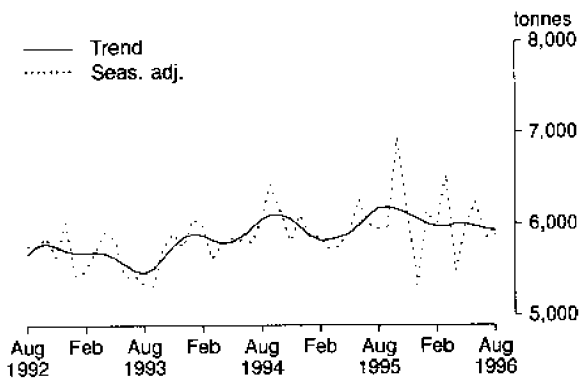


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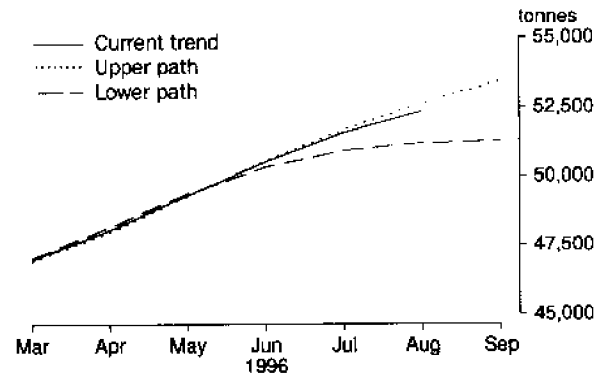
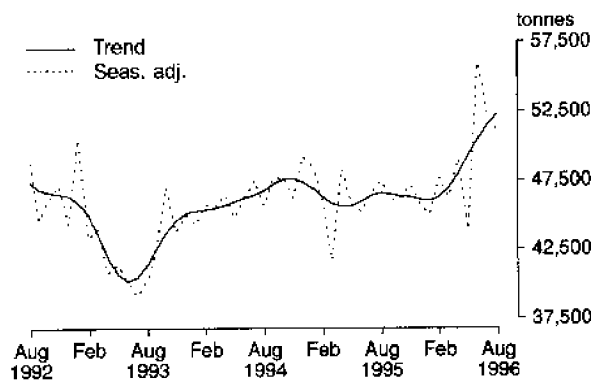
Longer term trend(a)

Short-term sensitivity analysis

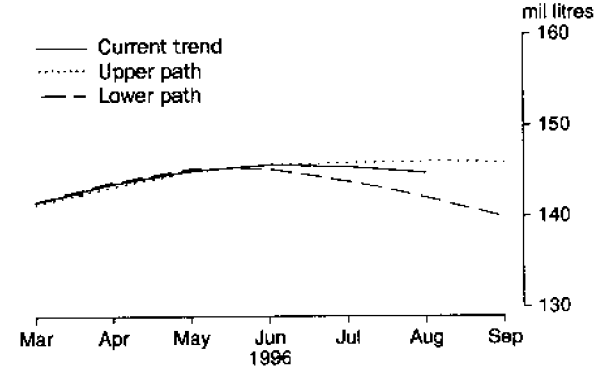
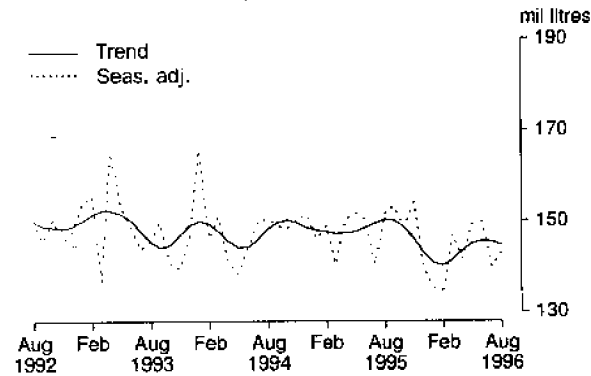
**M9 OTHER CONFECTIONERY** (seasonally adjusted series average movement 5%)



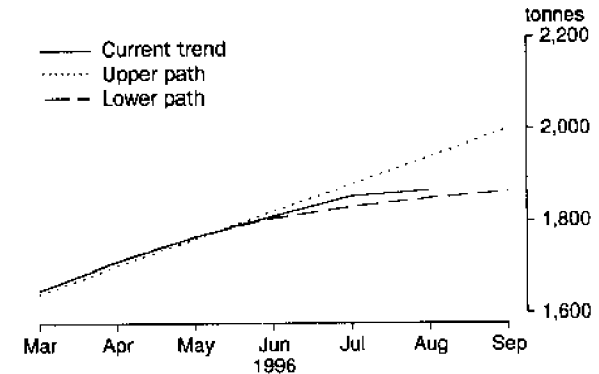
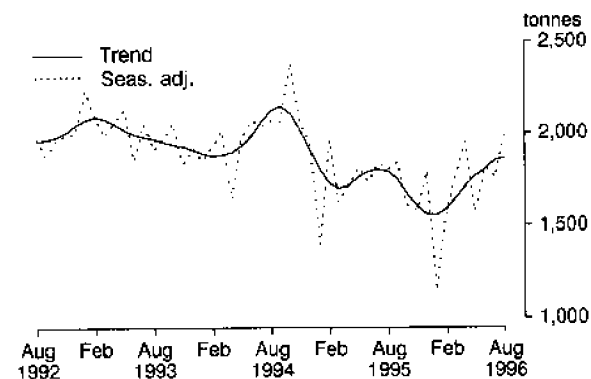
**M10 MALT** (seasonally adjusted series average movement 5%)



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



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

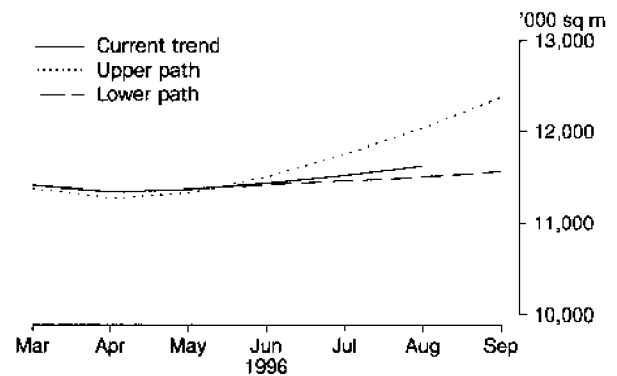
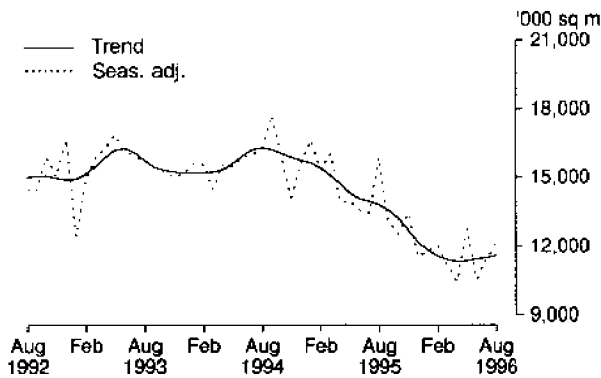


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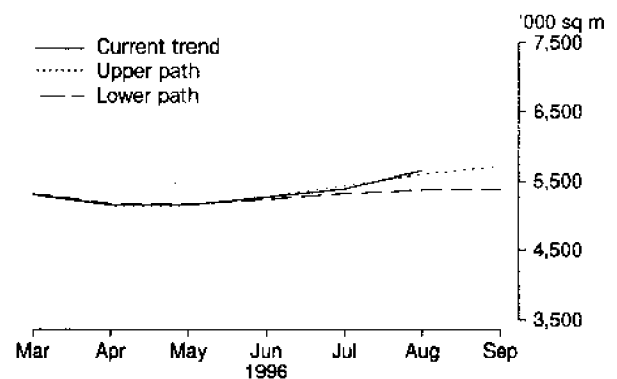
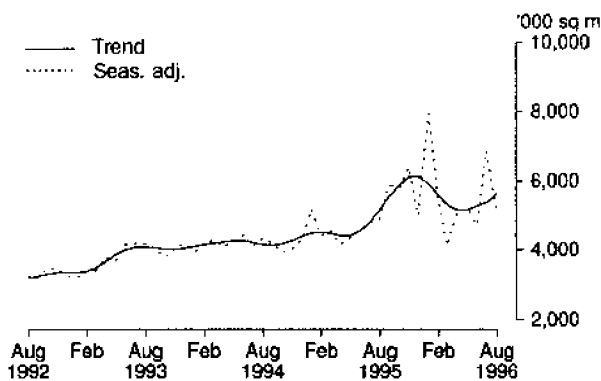
### Longer term trend(a)

### Short-term sensitivity analysis

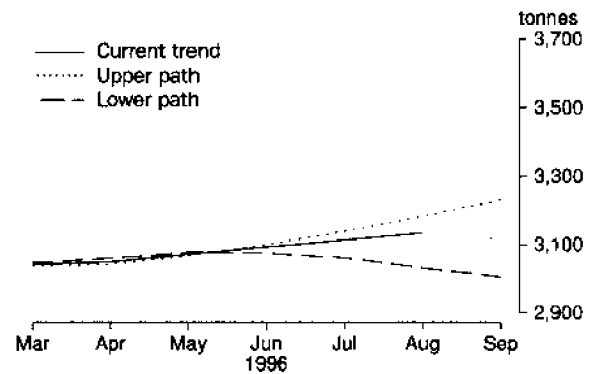
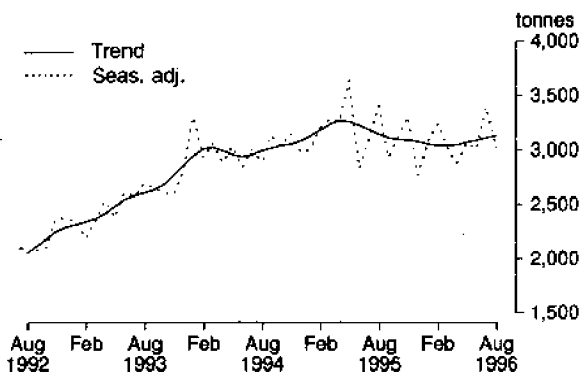
#### M13 MAN-MADE FIBRE WOVEN FABRIC (seasonally adjusted series average movement 8%)



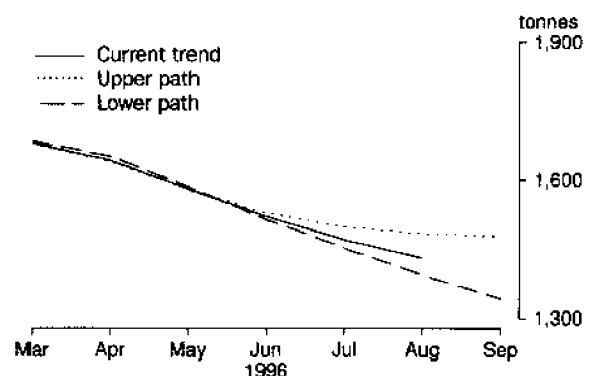
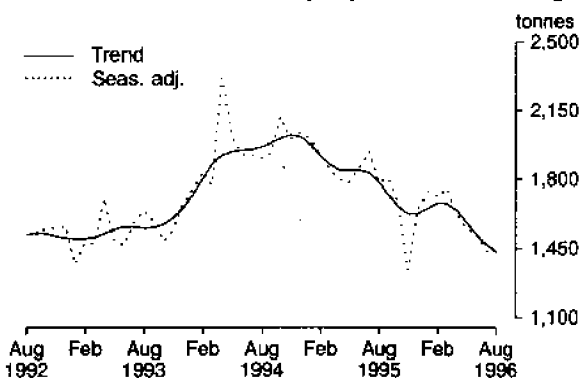
#### M14 COTTON WOVEN FABRIC (seasonally adjusted series average movement 9%)



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



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



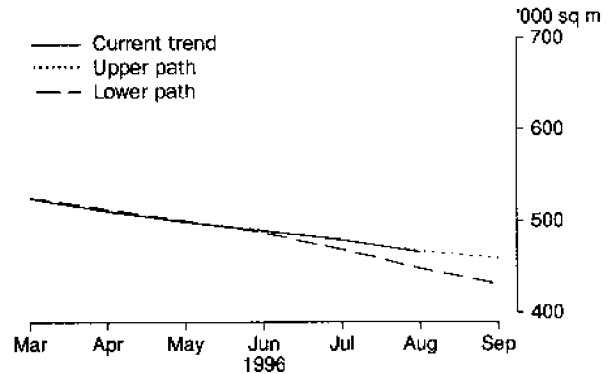
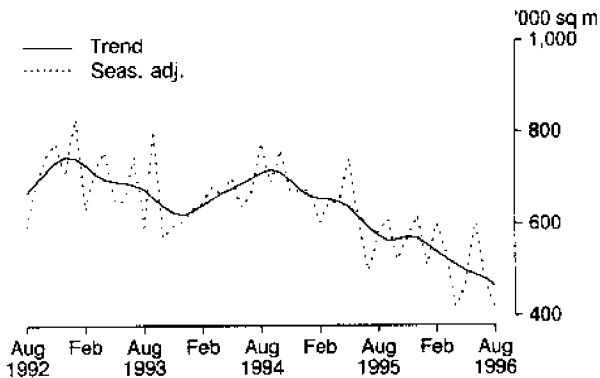
For footnotes see page 23.



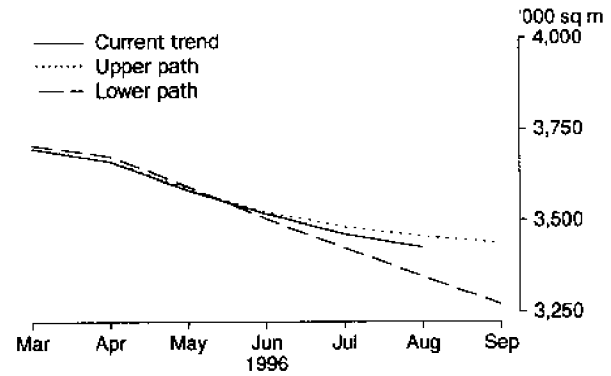
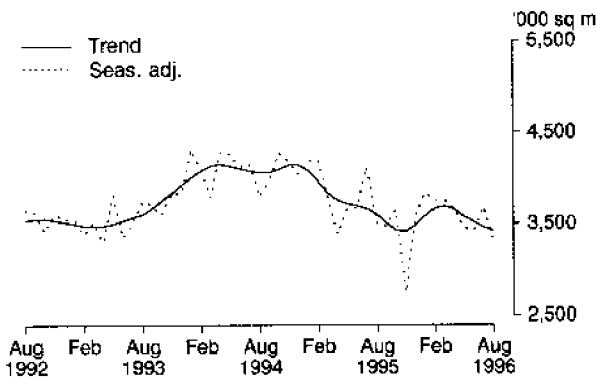
Longer term trend(a)

Short-term sensitivity analysis

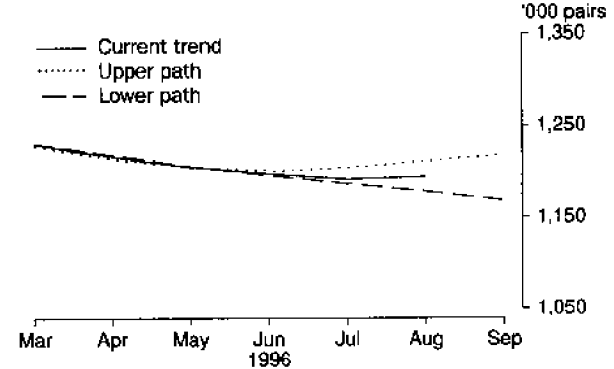
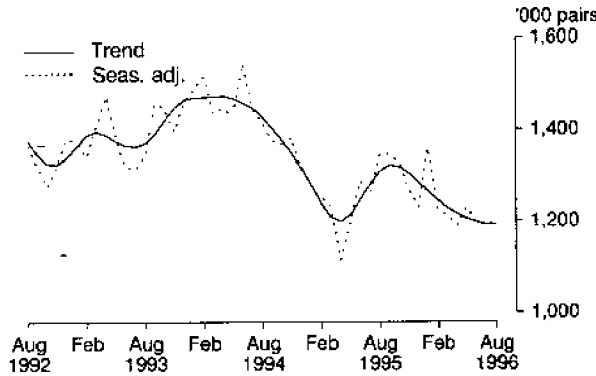
**M17 WOOL WOVEN FABRIC** (seasonally adjusted series average movement 8%)



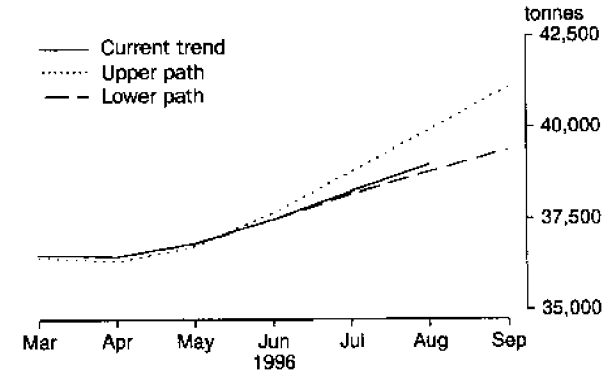
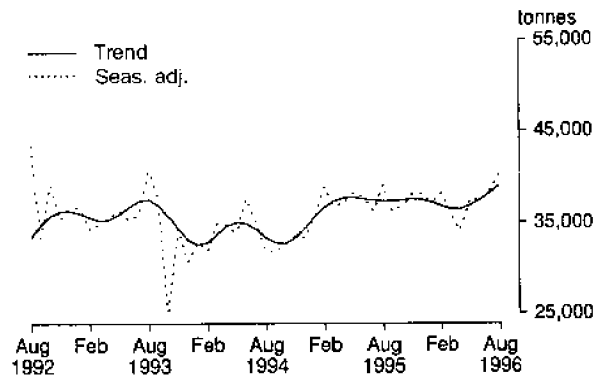
**M18 TEXTILE FLOOR COVERINGS** (seasonally adjusted series average movement 6%)



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



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

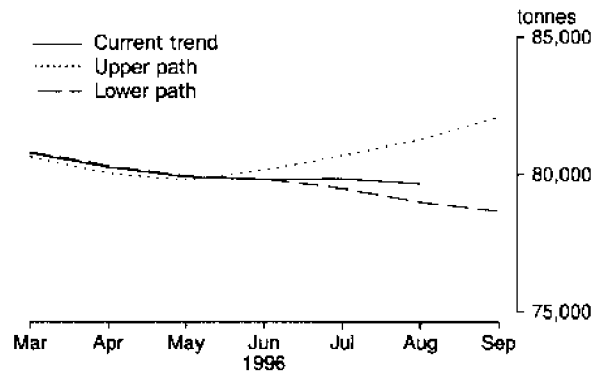
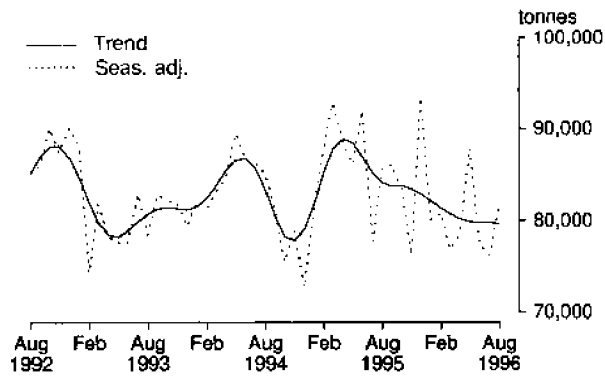


For footnotes see page 23.

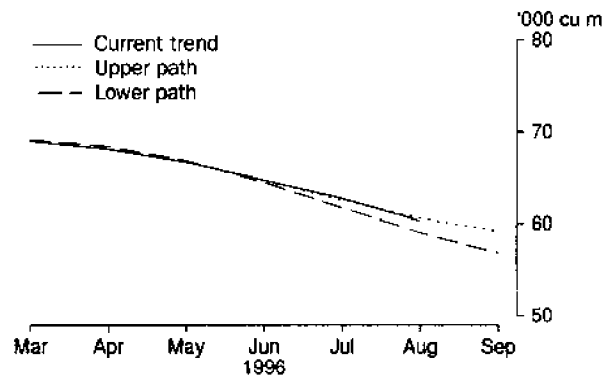
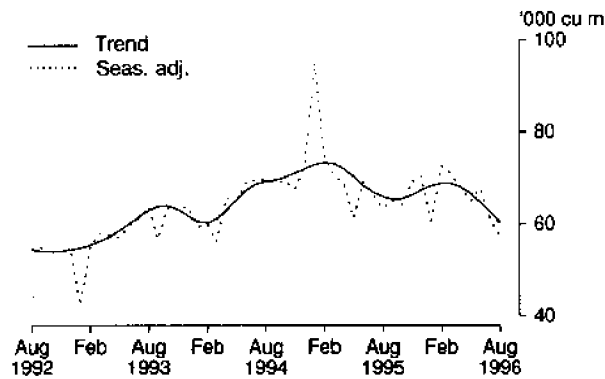
### Longer term trend(a)

### Short-term sensitivity analysis

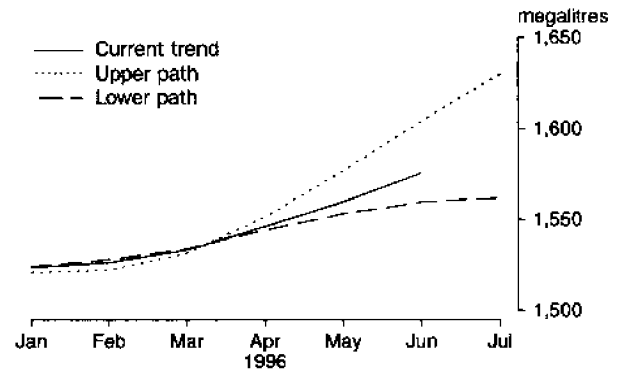
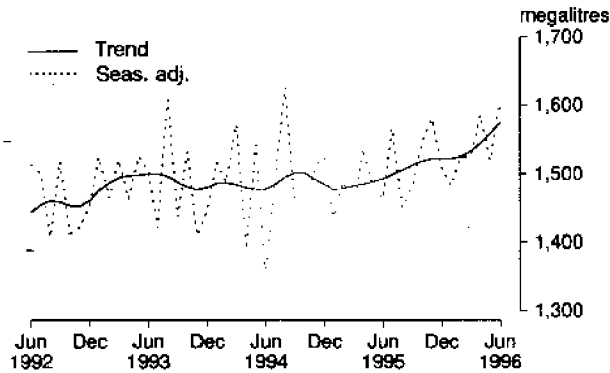
#### M22 WOOD PULP (seasonally adjusted series average movement 4%)



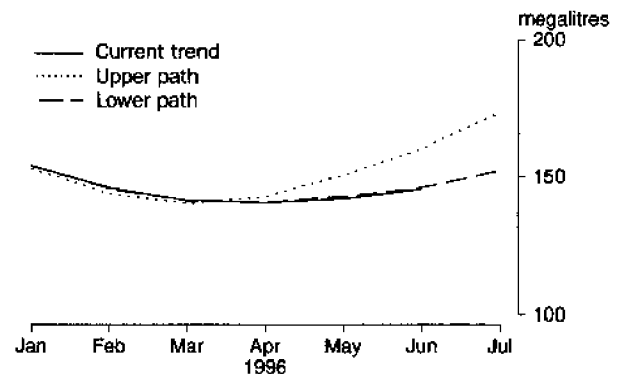
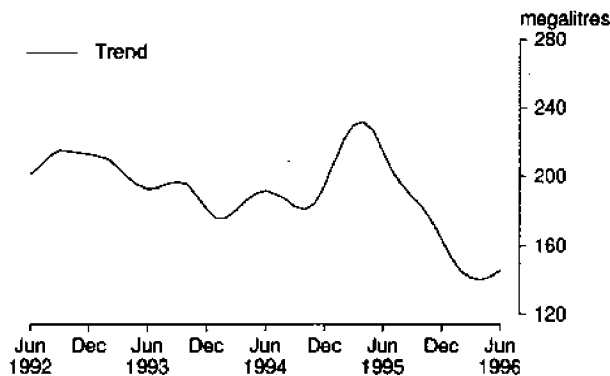
#### M23 UNLAMINATED PARTICLE BOARD (seasonally adjusted series average movement 5%)



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



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



For footnotes see page 23.

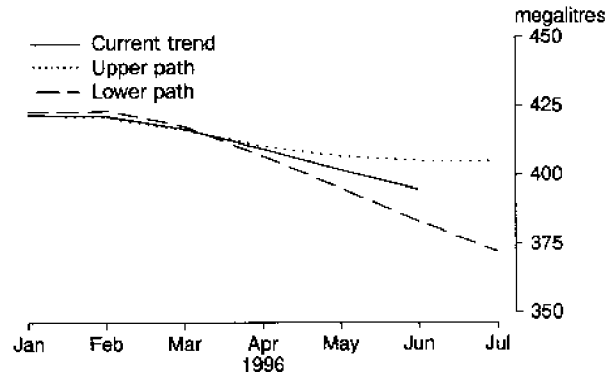
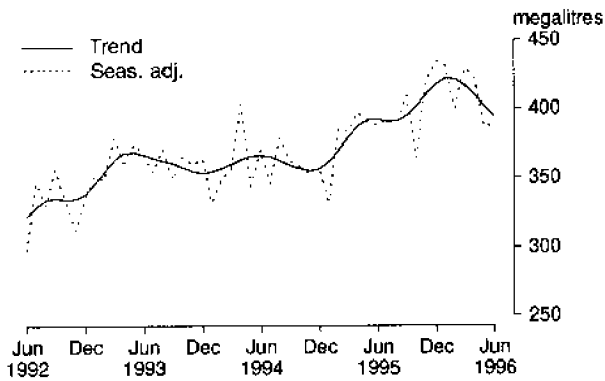
# M

## MONTHLY PRODUCTION *continued*

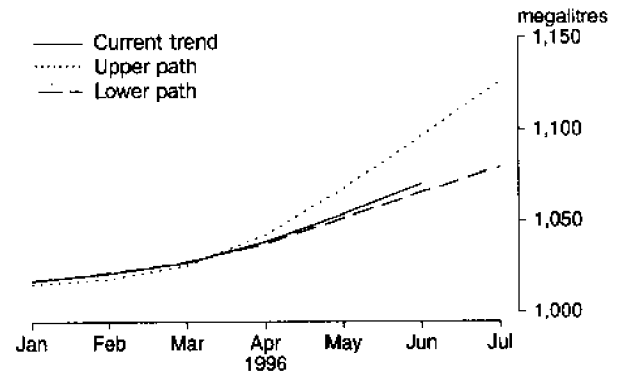
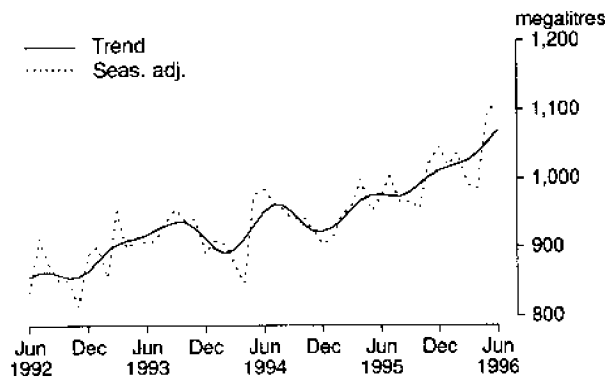
Longer term trend (a)

Short-term sensitivity analysis

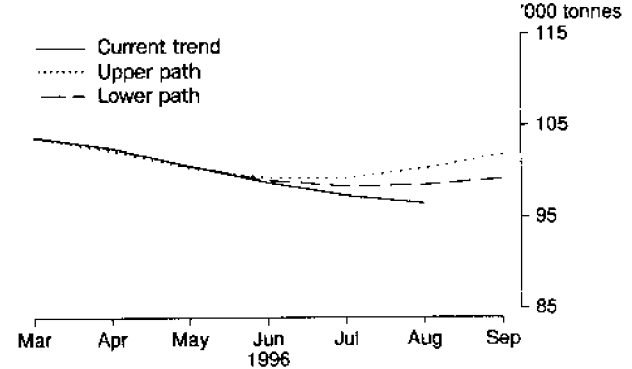
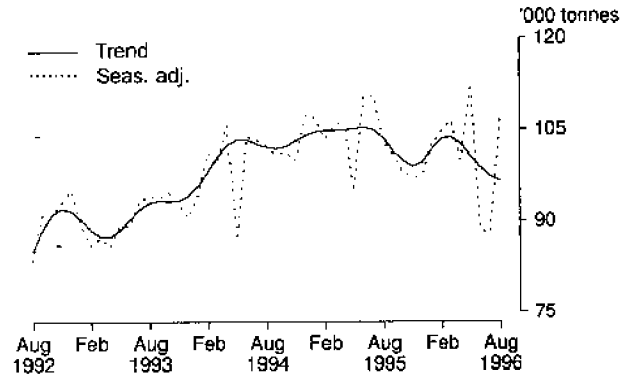
### M28 AVIATION TURBINE FUEL(d) (seasonally adjusted series average movement 9%)



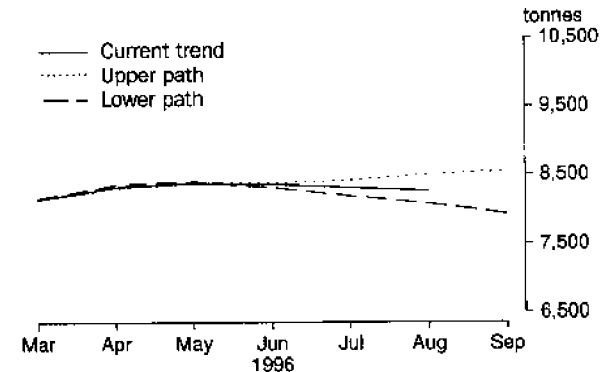
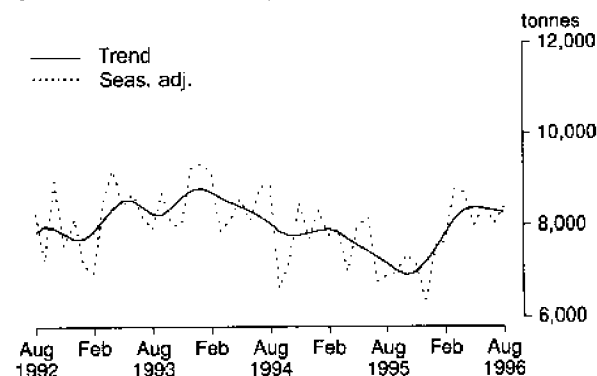
### M29 AUTOMOTIVE DIESEL OIL(d) (seasonally adjusted series average movement 5%)



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



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

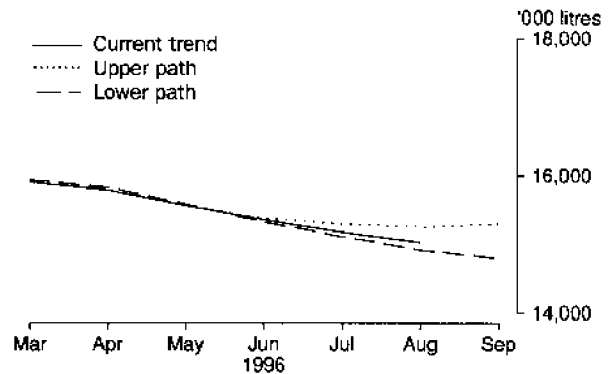
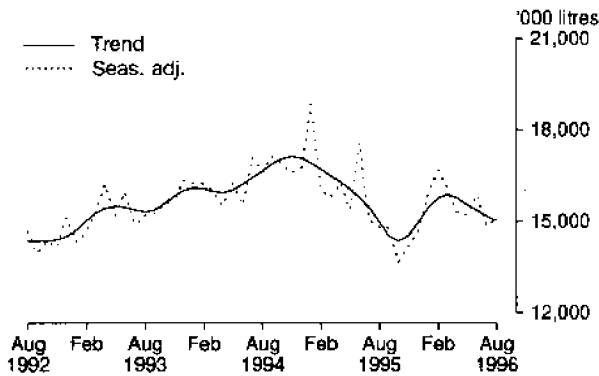


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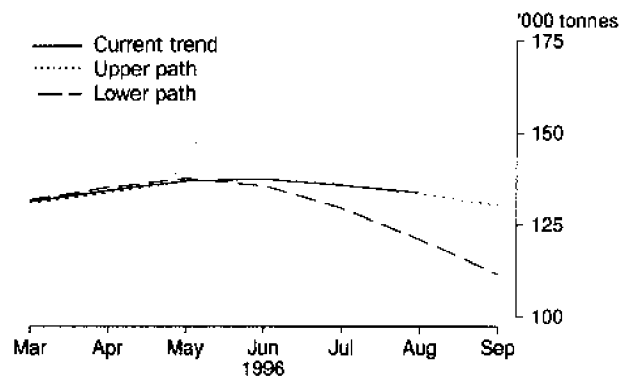
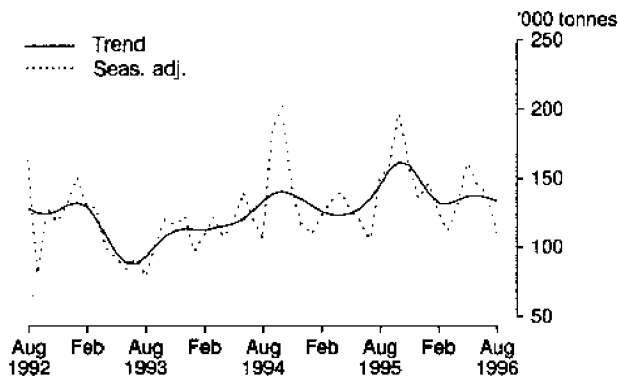
### Longer term trend (a)

### Short-term sensitivity analysis

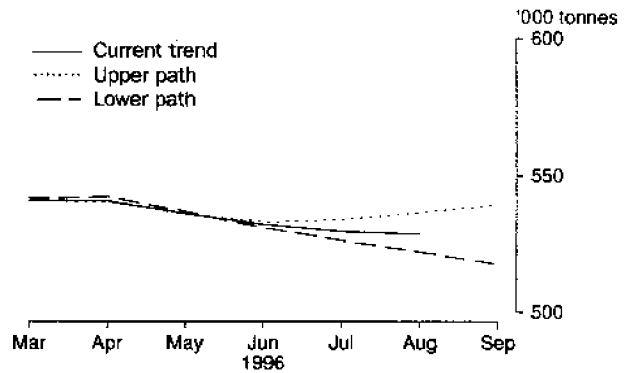
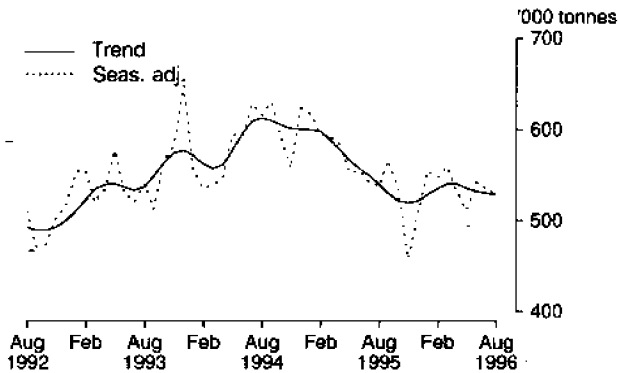
#### M33 PAINT (seasonally adjusted series average movement 4%)



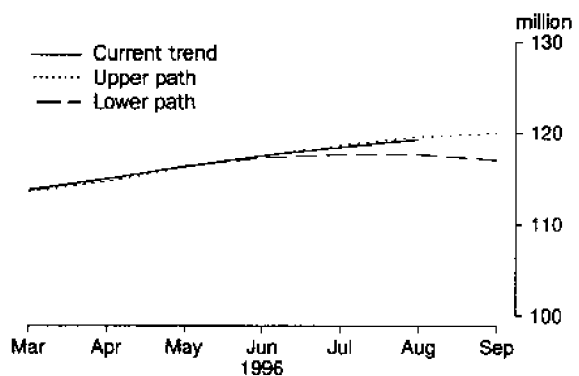
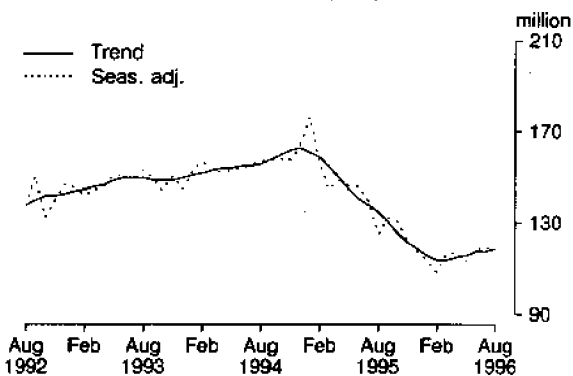
#### M34 SUPERPHOSPHATES (seasonally adjusted series average movement 15%)



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



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

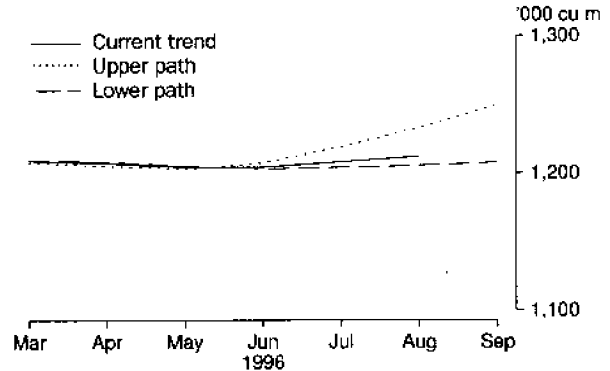
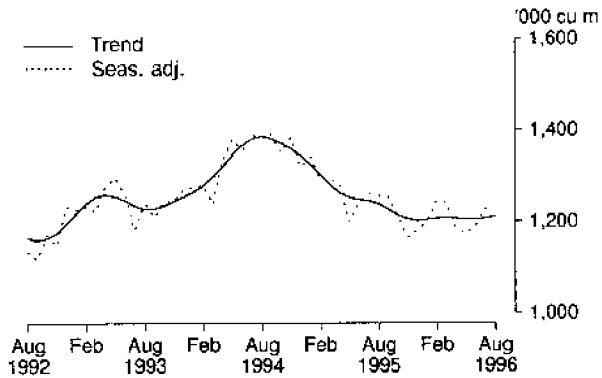


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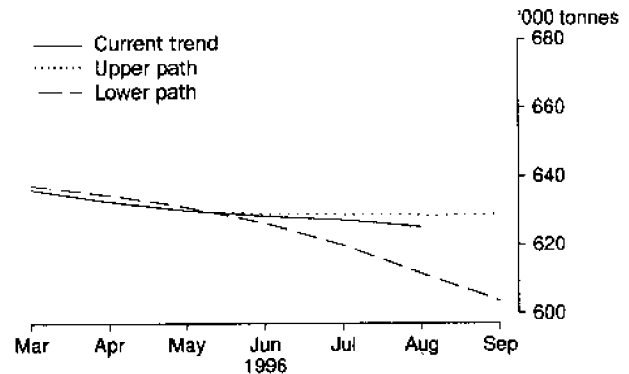
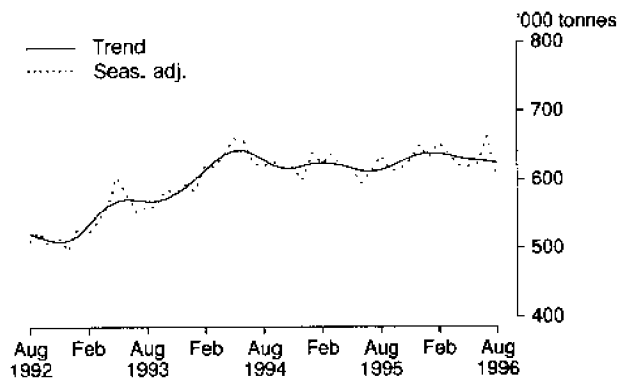
Longer term trend(a)

Short-term sensitivity analysis

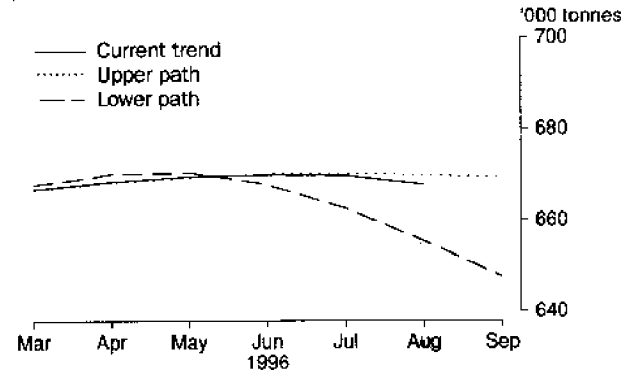
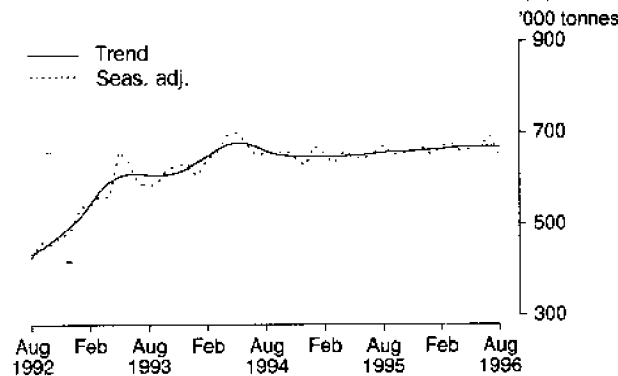
**M37 READY MIXED CONCRETE** (seasonally adjusted series average movement 4%)



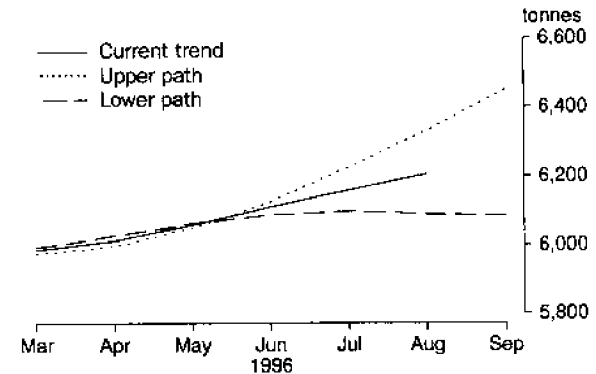
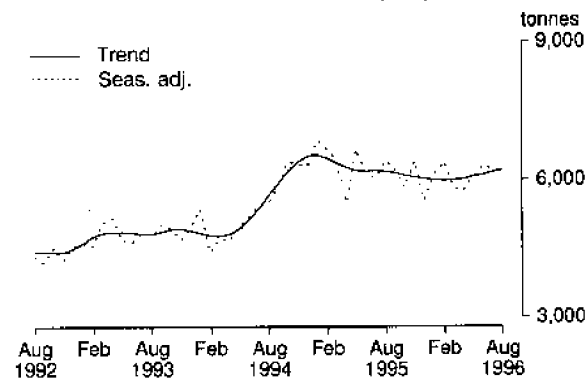
**M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(e)** (seasonally adjusted series average movement 5%)



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



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

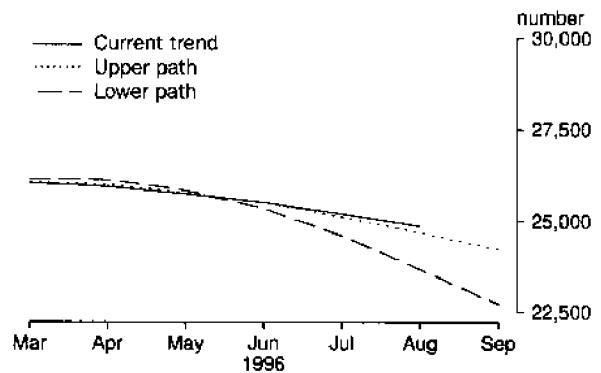
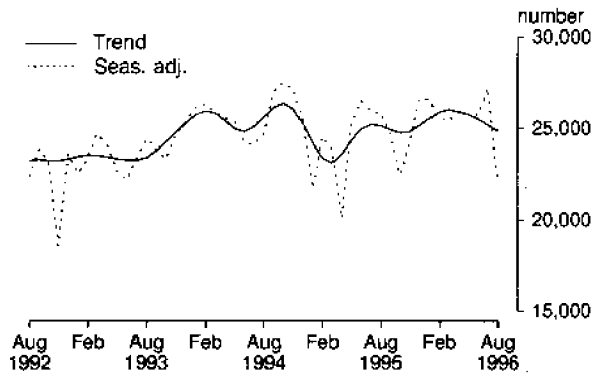


For footnotes see page 23.

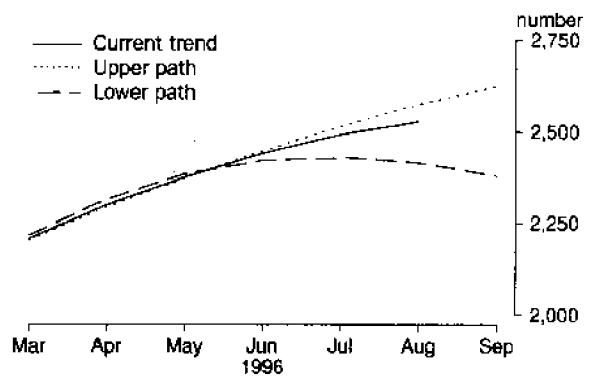
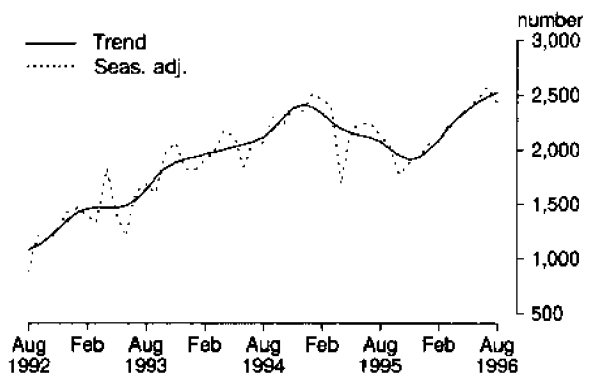
Longer term trend(a)

Short-term sensitivity analysis

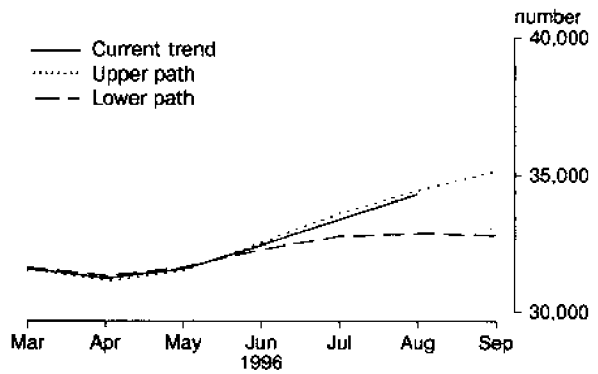
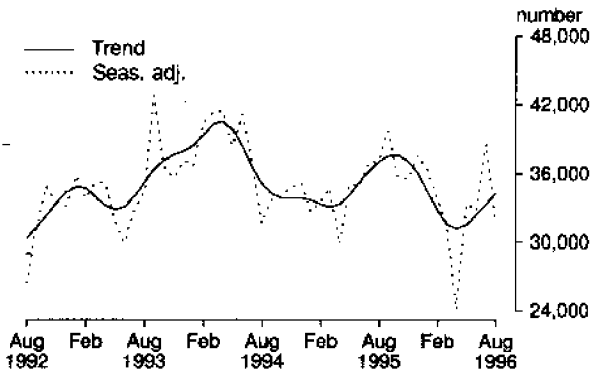
**M41 CARS AND STATION WAGONS** (seasonally adjusted series average movement 8%)



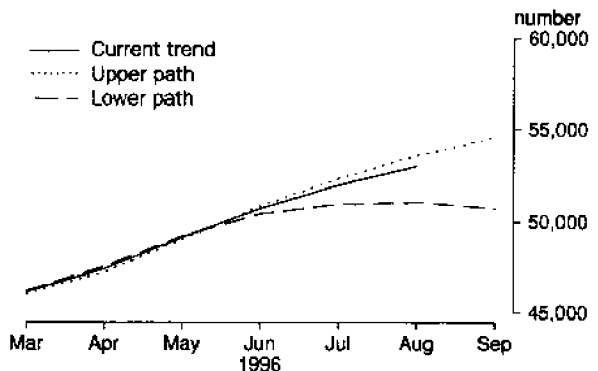
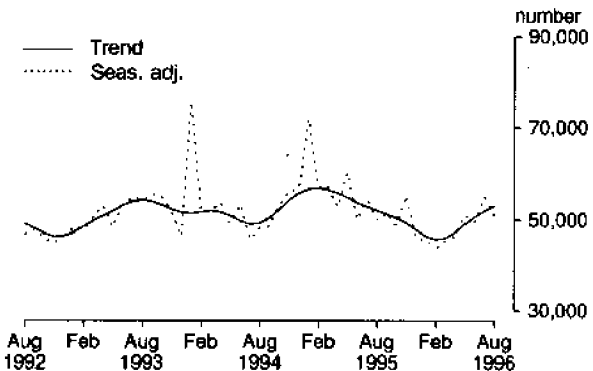
**M42 VEHICLES FOR GOODS AND MATERIALS** (seasonally adjusted series average movement)



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



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

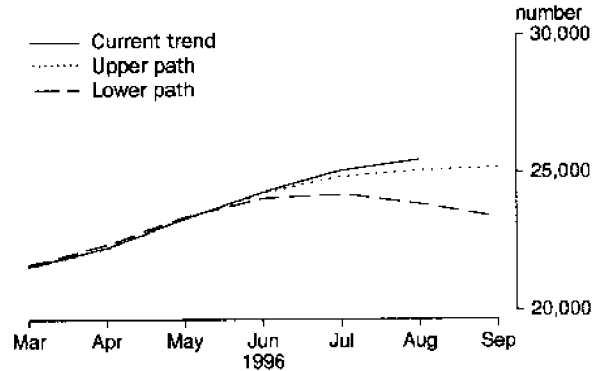
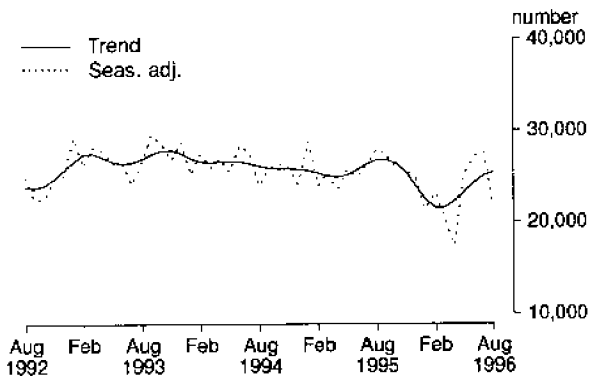


For footnotes see page 23.

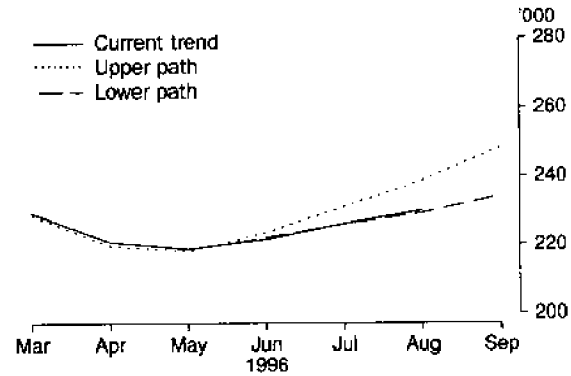
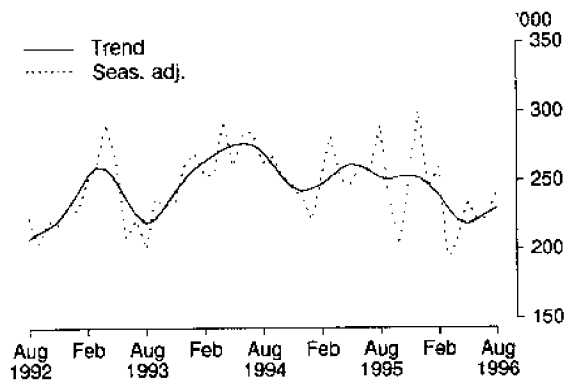
Longer term trend(a)

Short-term sensitivity analysis

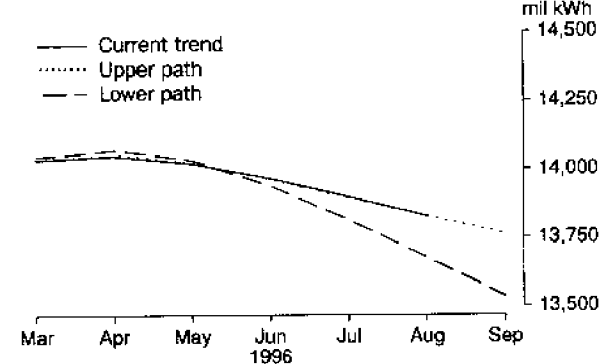
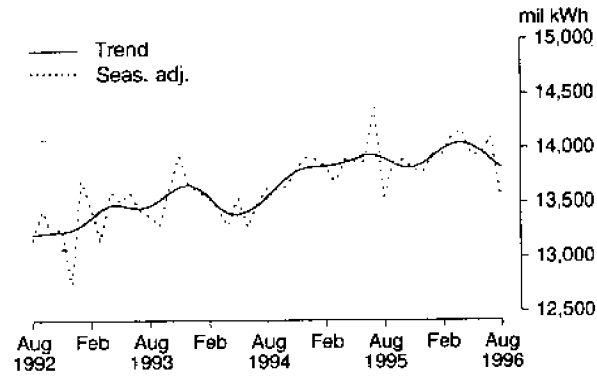
**M46 DOMESTIC CLOTHES WASHING MACHINES** (seasonally adjusted series average movement 9%)



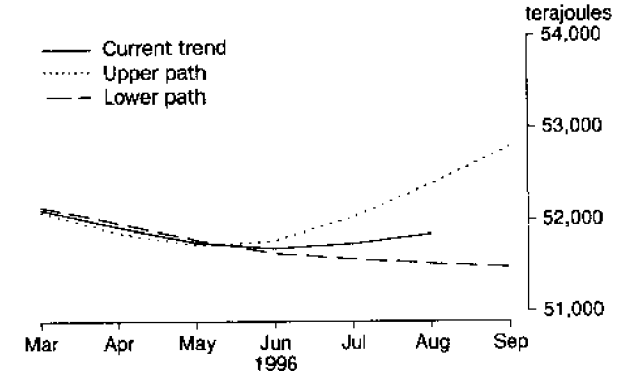
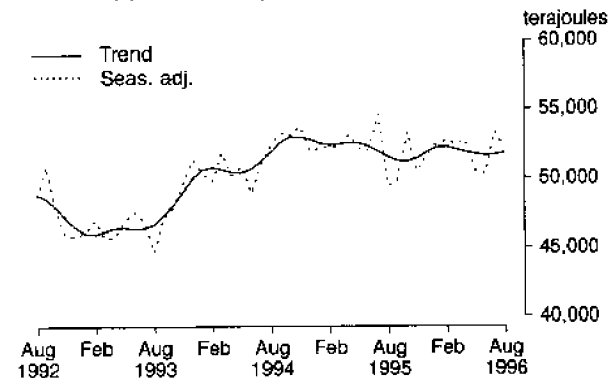
**M47 ELECTRIC MOTORS** (seasonally adjusted series average movement 7%)



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



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



For footnotes see page 23.

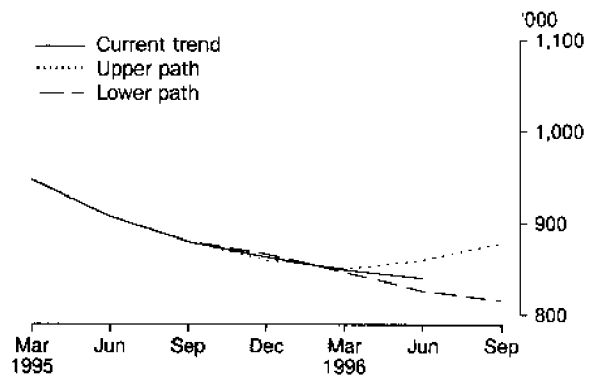
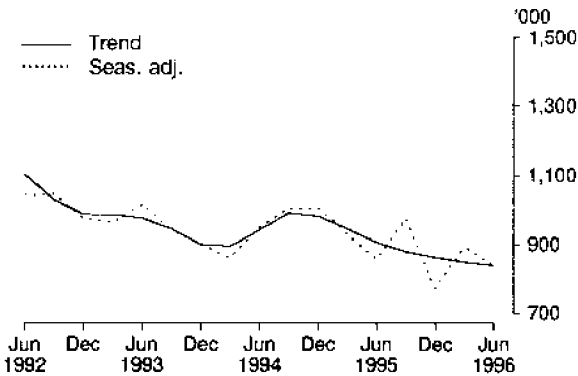
# Q

## QUARTERLY PRODUCTION

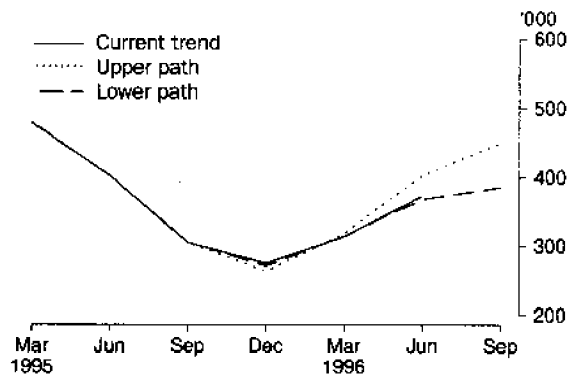
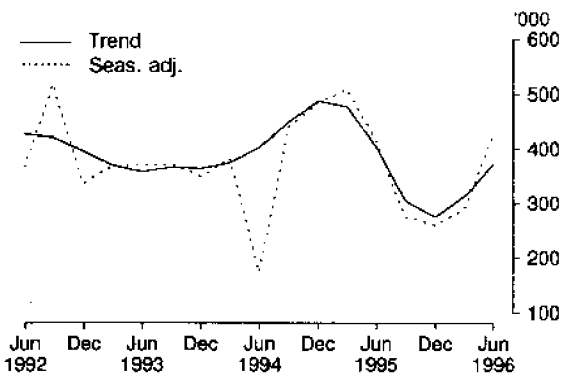
### Longer term trend (a)

### Short-term sensitivity analysis

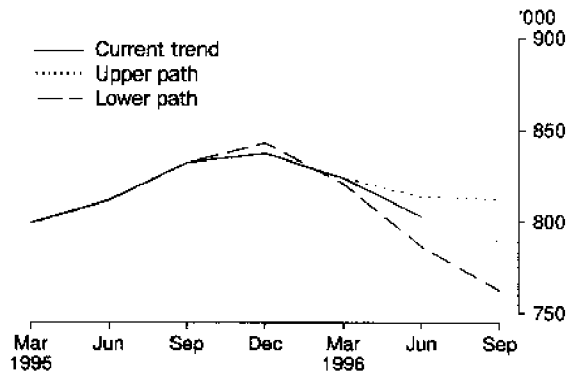
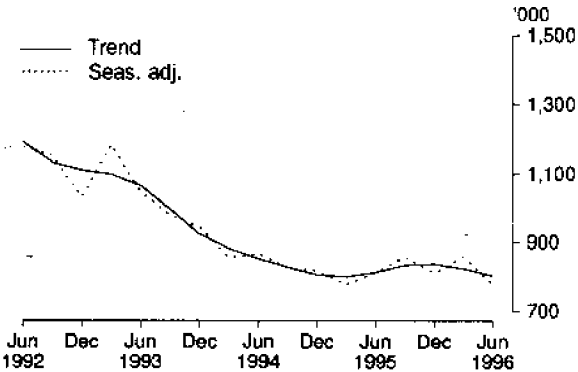
#### Q1 MEN'S AND BOYS' LONG TROUSERS (seasonally adjusted series average movement 7%)



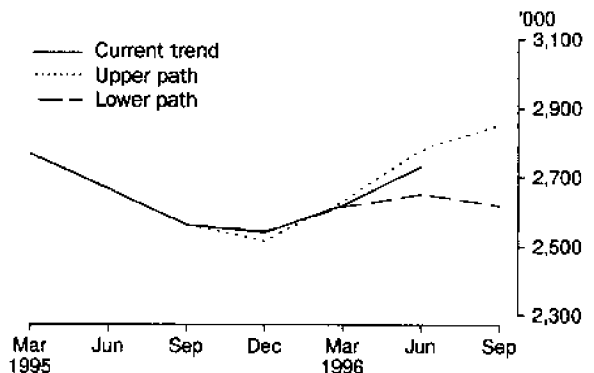
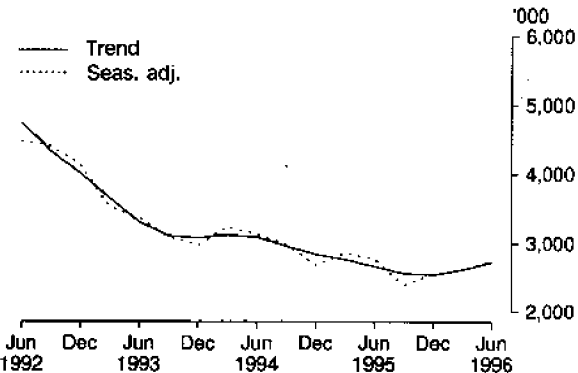
#### Q2 WOMEN'S AND GIRLS' LONG TROUSERS (seasonally adjusted series average movement 14%)



#### Q3 JEANS (seasonally adjusted series average movement 6%)



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



For footnotes see page 23.



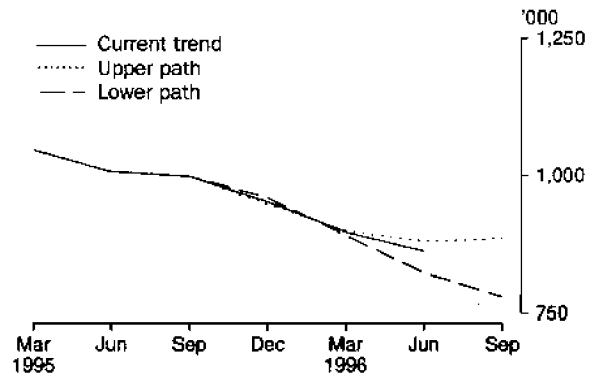
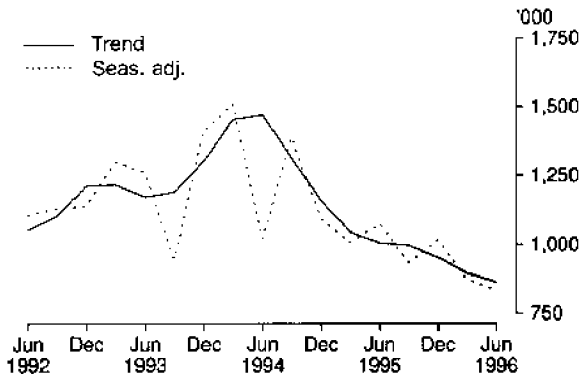
# Q

## QUARTERLY PRODUCTION *continued*

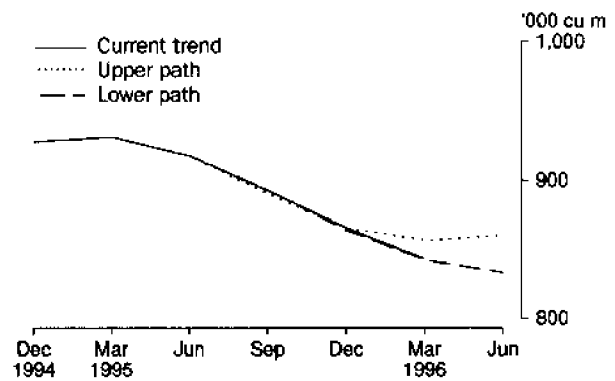
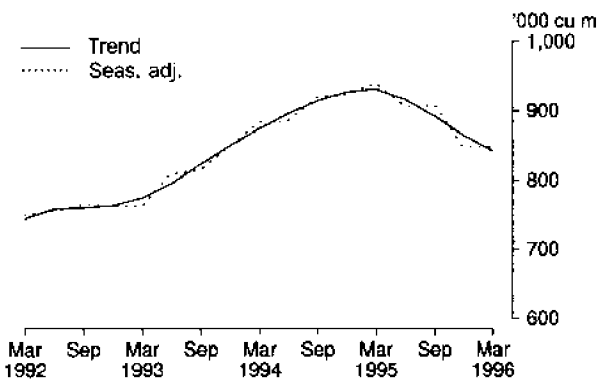
Longer term trend (a)

Short-term sensitivity analysis

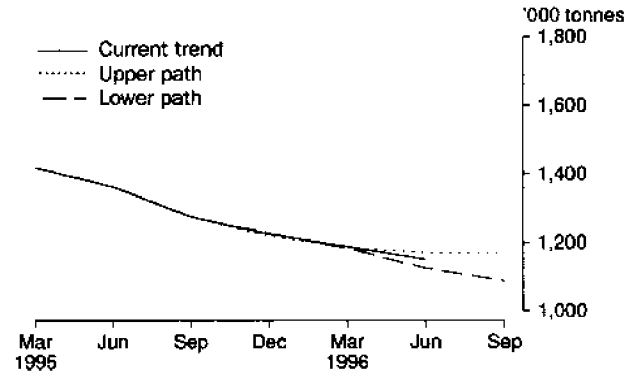
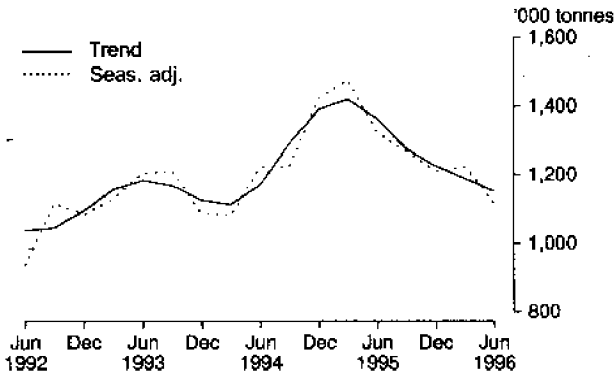
### Q5 WOMEN'S SHIRTS AND BLOUSES (seasonally adjusted series average movement 12%)



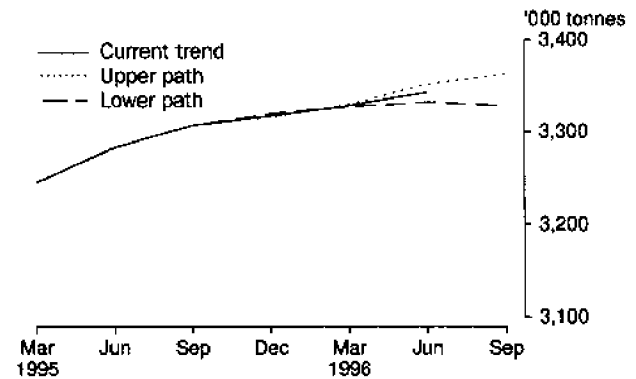
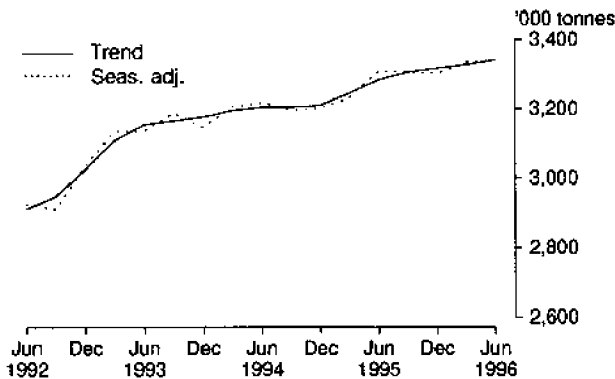
### Q6 UNDRESSED SAWN TIMBER(d) (seasonally adjusted series average movement 3%)



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



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

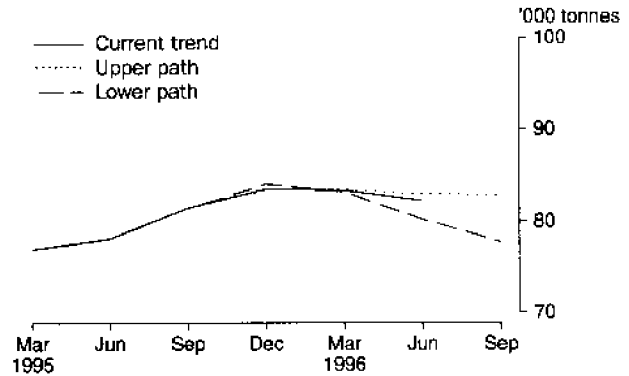
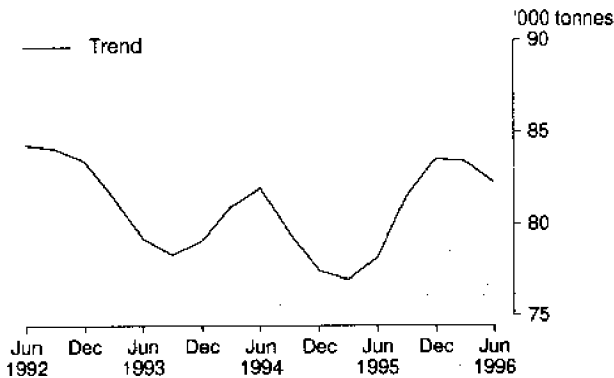


For footnotes see page 23.

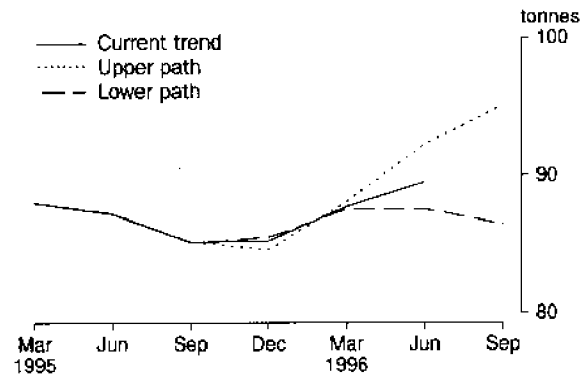
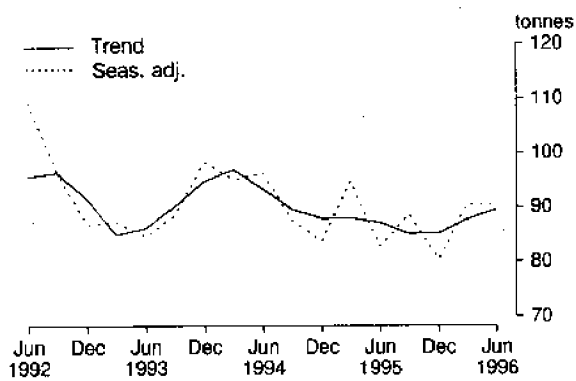
### Longer term trend(a)

### Short-term sensitivity analysis

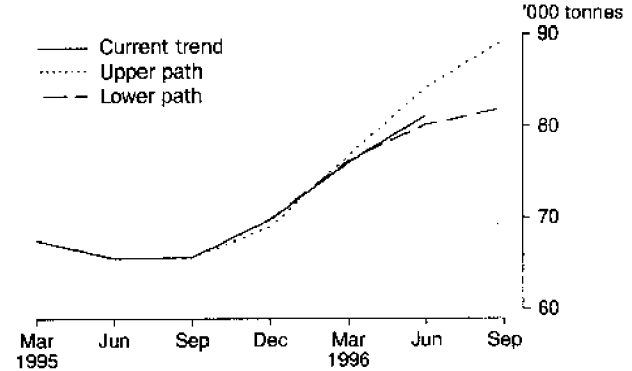
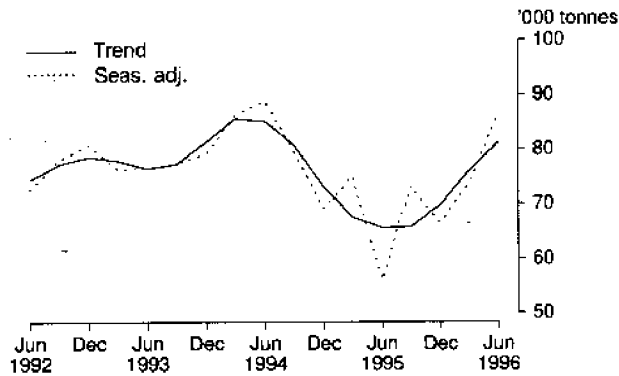
**Q9 ZINC(d)** (seasonally adjusted series average movement 6%)



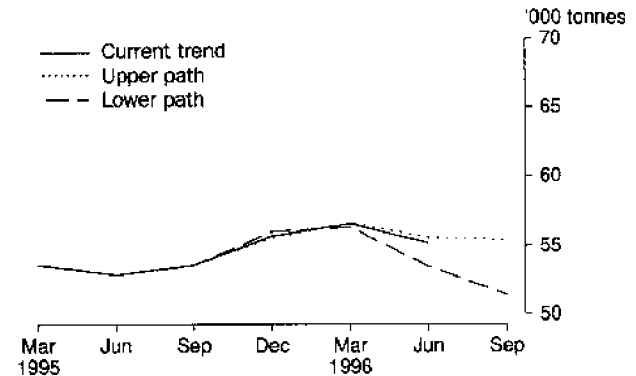
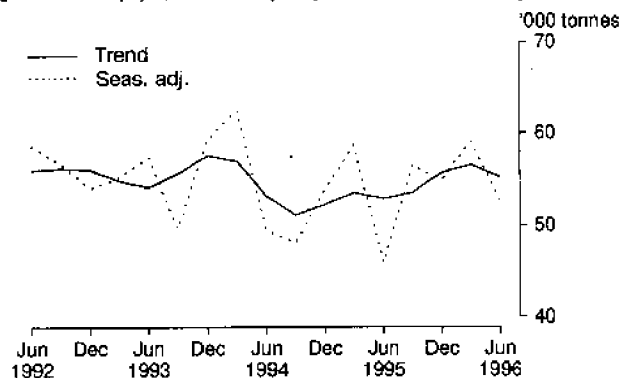
**Q10 SILVER(d)** (seasonally adjusted series average movement 9%)



**Q11 COPPER(d)** (seasonally adjusted series average movement 8%)



**Q12 LEAD(d)** (seasonally adjusted series average movement 7%)



For footnotes see page 23.

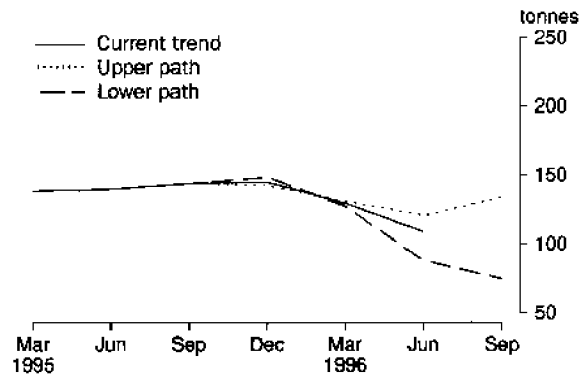
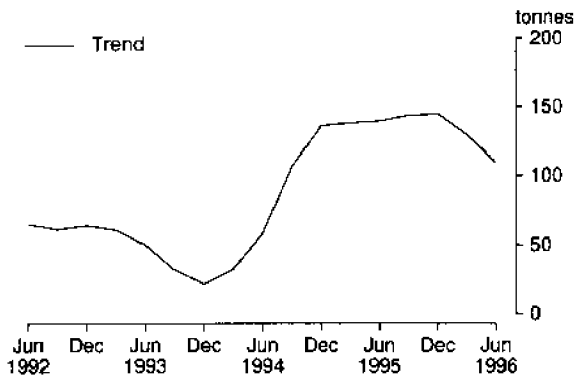
# Q

## QUARTERLY PRODUCTION *continued*

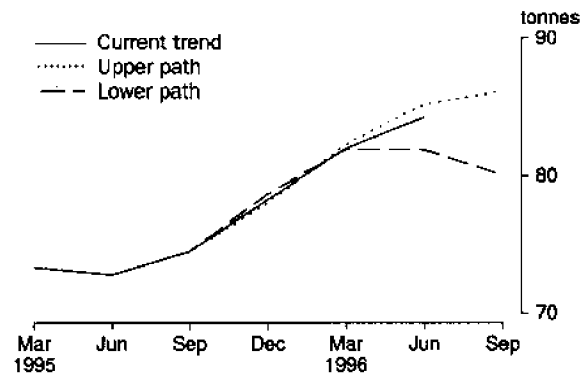
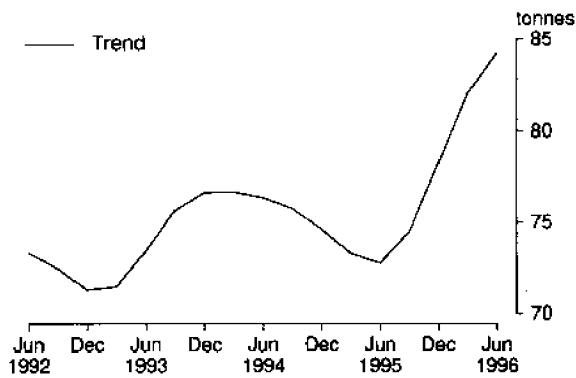
### Longer term trend (a)

### Short-term sensitivity analysis

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



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



For footnotes see page 23.

No.	Item	Series (a)	Unit	1995								1996		Percentage changes between latest month shown and-	
				Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	prev. month	same month prev. year	
M1	Red meat	Orig.	'000 tonnes	194	199	224	227	r 202	229	r 198	203	n.y.a.	2.7	2.3	
		S. adj.	"	212	225	229	r 224	r 211	203	r 209	r 202	n.y.a.	-3.3	-6.2	
		Trend	"	219	221	221	219	215	211	206	203	n.y.a.	-1.9	-7.6	
M2	Chicken meat	Orig.	tonnes	42,193	39,471	38,135	41,814	38,388	r 38,071	r 38,189	40,152	n.y.a.	5.1	0.4	
		S. adj.	"	40,990	38,015	37,942	43,598	37,170	r 37,780	r 38,448	37,098	n.y.a.	-3.5	-3.4	
		Trend	"	39,268	39,343	39,396	39,317	38,957	38,480	37,998	37,695	n.y.a.	0.8	1.4	
M3	Cheese(b)	Orig.	"	29,238	24,788	21,053	19,908	19,232	16,135	11,755	n.y.a.	n.y.a.	-27.1	1.7	
		S. adj.	"	22,495	20,899	21,234	21,017	22,645	22,511	23,316	n.y.a.	n.y.a.	3.6	5.5	
		Trend	"	21,422	21,397	21,506	21,756	22,090	22,457	22,784	n.y.a.	n.y.a.	1.5	7.5	
M4	Butter(h)	Orig.	"	18,624	16,075	11,776	11,401	8,318	6,542	8,180	n.y.a.	n.y.a.	25.0	23.1	
		S. adj.	"	11,719	12,393	12,052	12,165	11,970	12,484	16,344	n.y.a.	n.y.a.	30.9	22.5	
		Trend	"	11,516	11,853	12,105	12,370	12,823	13,406	14,016	n.y.a.	n.y.a.	4.6	20.9	
M5	Flour of wheat or of meslin	Orig.	'000 tonnes	119	104	119	124	111	135	122	128	129	0.3	8.1	
		S. adj.	"	129	115	119	121	122	123	118	130	120	-7.6	8.1	
		Trend	"	119	120	120	121	121	122	123	124	124	0.2	9.7	
M6	Prepared foods from cereals	Orig.	tonnes	6,594	8,371	8,570	10,431	7,277	8,951	7,758	7,012	8,991	28.2	7.4	
		S. adj.	"	6,750	8,925	8,776	9,824	7,852	8,330	7,728	7,289	9,506	30.4	7.6	
		Trend	"	8,551	8,624	8,620	8,577	8,455	8,299	8,176	8,123	8,177	0.7	-2.1	
M7	Biscuits	Orig.	"	10,679	6,864	11,317	12,978	9,936	12,875	12,742	12,602	13,682	8.6	2.8	
		S. adj.	"	12,245	10,868	11,172	12,011	11,692	12,007	12,400	11,855	12,726	7.3	5.2	
		Trend	"	11,751	11,589	11,528	11,603	11,771	11,968	12,151	12,319	12,424	0.9	2.8	
M8	Chocolate based confectionery	Orig.	"	9,534	7,558	9,264	9,186	6,499	9,395	9,302	9,852	11,148	13.2	-0.7	
		S. adj.	"	9,669	12,194	8,796	8,836	8,277	8,913	9,366	9,750	9,498	-2.6	1.7	
		Trend	"	9,459	9,202	8,956	8,799	8,815	8,966	9,169	9,377	9,573	2.1	-1.6	
M9	Other confectionery	Orig.	"	5,001	3,564	5,709	6,518	4,418	6,057	6,605	6,201	6,907	11.4	-2.4	
		S. adj.	"	5,321	6,136	5,952	6,537	5,478	5,993	6,244	5,864	5,891	0.5	-0.9	
		Trend	"	6,059	6,006	5,974	5,977	6,003	6,003	5,978	5,946	5,932	-0.2	-3.9	
M10	Malt	Orig.	"	45,016	42,853	49,747	45,992	46,119	48,050	54,107	r 50,339	51,917	3.1	7.3	
		S. adj.	"	45,679	44,957	47,713	46,229	49,036	43,886	55,918	r 52,208	51,032	2.3	7.4	
		Trend	"	46,115	46,019	46,279	46,982	48,049	49,308	50,525	51,589	52,343	1.5	12.4	
M11	Beer	Orig.	mil litres	161	133	128	147	131	146	120	129	138	6.9	-9.9	
		S. adj.	"	139	135	135	147	142	149	150	140	143	2.3	-5.8	
		Trend	"	143	141	140	142	144	145	146	145	145	-0.4	-3.6	
M12	Tobacco and cigarettes(c)	Orig.	tonnes	1,647	667	1,751	1,857	1,629	1,834	1,777	2,255	2,242	-0.6	8.3	
		S. adj.	"	1,791	1,147	1,585	1,777	1,951	1,571	1,817	1,758	1,994	13.4	10.7	
		Trend	"	1,558	1,556	1,591	1,650	1,713	1,767	1,811	1,855	1,867	0.7	4.2	
M13	Man-made fibre woven fabric	Orig.	'000 sq m	9,655	7,937	13,044	12,196	9,327	r 14,094	11,011	12,258	13,061	6.6	-22.5	
		S. adj.	"	11,533	11,857	12,027	11,160	10,464	r 12,745	10,544	11,438	12,147	6.2	-23.5	
		Trend	"	12,198	11,808	11,551	11,416	11,345	11,371	11,435	11,518	11,625	0.9	-16.0	
M14	Cotton woven fabric	Orig.	"	4,474	3,340	5,828	4,848	4,394	6,033	5,109	6,692	5,921	-11.5	10.4	
		S. adj.	"	4,994	7,946	5,496	4,114	5,064	5,208	4,713	6,882	5,064	-26.4	3.3	
		Trend	"	6,137	5,925	5,599	5,308	5,155	5,157	5,268	5,390	5,653	4.9	9.5	
M15	Cotton yarn	Orig.	tonnes	2,318	1,901	3,282	3,381	2,509	3,281	3,527	r 3,641	3,409	-6.4	-11.0	
		S. adj.	"	2,769	3,095	3,248	3,034	2,886	3,071	3,011	r 3,398	3,020	-11.1	-11.3	
		Trend	"	3,082	3,056	3,043	3,042	3,050	3,072	3,094	3,114	3,134	0.6	-0.3	
M16	Wool yarn	Orig.	"	1,301	1,236	1,798	1,685	1,445	1,673	1,483	1,646	1,577	-4.2	-25.5	
		S. adj.	"	1,655	1,742	1,717	1,760	1,624	1,547	1,525	1,437	1,440	0.1	-19.5	
		Trend	"	1,629	1,656	1,682	1,681	1,644	1,582	1,522	1,471	1,431	-2.7	-20.0	

For footnotes see page 23.

No.	Item	Series (a)	Unit	1995								1996			Percentage changes between latest month shown and-	
				Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	prev. month	same month prev. year		
M17	Wool woven fabric	Orig.	'000 sq m	508	334	702	608	412	528	536	487	449	-8.0	-34.1		
		S. adj.	"	618	510	600	539	419	468	604	473	421	-10.9	-28.2		
		Trend	"	570	557	540	525	511	499	489	480	466	-2.9	-18.8		
M18	Textile floor coverings	Orig.	"	3,046	2,483	r 4,058	3,855	3,456	3,621	3,249	3,784	3,647	-3.6	-8.2		
		S. adj.	"	3,593	3,837	3,750	3,757	3,673	3,454	3,427	3,684	3,310	-10.1	-5.2		
		Trend	"	3,489	3,589	3,673	3,697	3,662	3,585	3,518	3,464	3,426	-1.1	-4.9		
M19	Footwear	Orig.	'000 pairs	1,029	756	1,326	1,339	1,183	1,346	1,089	r 1,229	1,312	6.7	-13.8		
		S. adj.	"	1,229	1,358	1,225	1,211	1,189	1,230	1,194	r 1,195	1,193	-0.2	-11.3		
		Trend	"	1,285	1,265	1,245	1,230	1,216	1,205	1,198	1,192	1,194	0.2	-8.7		
M21	Newsprint	Orig.	tonnes	36,733	38,631	40,350	36,111	34,818	40,194	35,515	38,160	39,422	3.3	-0.8		
		S. adj.	"	38,084	37,161	38,247	36,001	34,046	37,595	37,379	38,449	40,315	4.9	3.2		
		Trend	"	37,542	37,261	36,832	36,507	36,467	36,844	37,496	38,256	38,980	1.9	4.4		
M22	Wood pulp	Orig.	"	92,434	80,019	83,003	78,760	76,641	90,827	76,614	74,031	86,960	17.5	1.2		
		S. adj.	"	93,450	80,078	80,930	76,902	78,495	87,927	77,345	76,196	81,487	6.9	-4.9		
		Trend	"	82,968	82,260	81,405	80,790	80,273	79,922	79,822	79,846	79,661	-0.2	-5.3		
M23	Unlaminated particle board	Orig.	'000 cu m	57	36	73	74	68	73	67	63	62	-1.9	-16.1		
		S. adj.	"	70	61	73	71	68	65	68	61	58	-5.8	-9.1		
		Trend	"	68	68	69	69	68	67	65	63	60	-3.9	-8.7		
M25	Paperboard containers	Orig.	'000 tonnes	82,823	86,695	90,553	91,749	84,024	88,295	81,107	99,703	94,662	-5.1	-4.9		
		S. adj.	"	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(d)	Orig.	megalitres	1,537	1,561	1,463	1,529	1,544	1,573	1,585	n.y.a.	n.y.a.	0.7	9.5		
		S. adj.	"	1,509	1,482	1,525	1,527	1,586	1,521	1,604	n.y.a.	n.y.a.	5.4	9.5		
		Trend	"	1,523	1,523	1,526	1,534	1,546	1,560	1,576	n.y.a.	n.y.a.	1.0	5.5		
M27	Fuel oil(d)	Orig.	"	209	129	139	126	127	138	165	n.y.a.	n.y.a.	19.8	-19.0		
		S. adj.	"	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.		
		Trend	"	164	154	146	142	141	142	146	n.y.a.	n.y.a.	2.6	-32.2		
M28	Aviation turbine fuel(d)	Orig.	"	463	452	398	414	392	378	359	n.y.a.	n.y.a.	-5.0	1.2		
		S. adj.	"	435	432	400	429	422	387	390	n.y.a.	n.y.a.	0.8	0.4		
		Trend	"	418	422	421	417	410	402	395	n.y.a.	n.y.a.	-1.8	0.6		
M29	Automotive diesel oil(d)	Orig.	"	1,119	1,049	980	953	955	1,127	1,082	n.y.a.	n.y.a.	-3.9	14.3		
		S. adj.	"	1,047	1,018	1,038	991	986	1,094	1,110	n.y.a.	n.y.a.	1.5	14.1		
		Trend	"	1,012	1,017	1,021	1,027	1,039	1,054	1,070	n.y.a.	n.y.a.	1.6	9.6		
M30	Plastics in primary forms	Orig.	'000 tonnes	85	98	102	108	100	113	81	100	108	8.2	-1.5		
		S. adj.	"	98	103	105	107	100	112	88	88	107	21.4	3.7		
		Trend	"	100	102	104	104	103	101	99	97	97	-0.9	-6.8		
M31	Rigid PVC tubes, pipes and hoses	Orig.	tonnes	5,588	4,479	8,753	9,229	7,599	9,608	8,780	9,439	8,944	-5.2	18.9		
		S. adj.	"	6,356	7,569	7,661	8,804	8,707	7,990	8,444	8,021	8,392	4.6	21.3		
		Trend	"	7,192	7,509	7,845	8,142	8,329	8,386	8,364	8,316	8,272	-0.5	15.7		
M32	Polyethylene bottles up to two litres(g)	Orig.	million	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.		
		S. adj.	"	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.		
M33	Paint	Orig.	'000 litres	15,103	13,006	16,714	17,602	13,947	16,119	14,627	15,253	15,496	1.6	8.0		
		S. adj.	"	14,682	15,858	16,684	16,119	15,299	15,218	15,907	14,858	15,119	1.8	2.2		
		Trend	"	14,980	15,466	15,801	15,914	15,795	15,570	15,362	15,184	15,031	-1.0	0.4		
M34	Superphosphates	Orig.	'000 tonnes	162	208	171	161	156	174	101	r 85	45	-47.3	-32.3		
		S. adj.	"	135	147	124	112	130	161	145	r 139	111	-20.3	-26.7		
		Trend	"	150	139	132	131	134	137	138	136	134	-1.4	-7.9		

For footnotes see page 23.

No.	Item	Series (a)	Unit	1995									Percentage changes between latest month shown and-		
				1996											
				Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	prev. month	same month prev. year	
M35	Portland cement	Orig.	'000 tonnes	483	414	533	579	491	543	559	r 564	582	3.2	-0.8	
		S. adj.	"	509	555	548	560	533	512	542	r 535	529	-1.1	-1.6	
		Trend	"	522	529	536	541	541	536	532	530	529	-0.2	-2.1	
M36	Clay bricks	Orig.	million	104	79	108	123	116	125	120	130	127	-1.9	-9.9	
		S. adj.	"	118	114	109	116	118	113	119	120	118	-1.8	-6.0	
		Trend	"	119	116	114	114	115	116	118	118	119	0.7	-11.5	
M37	Ready mixed concrete	Orig.	'000 cu m	1,013	953	1,238	1,288	1,104	1,307	1,157	r 1,319	1,341	1.6	-3.4	
		S. adj.	"	1,182	1,203	1,247	1,242	1,184	1,173	1,193	r 1,229	1,234	0.4	-1.8	
		Trend	"	1,202	1,205	1,208	1,209	1,207	1,204	1,205	1,208	1,213	0.4	-2.1	
M38	Basic iron, spiegeleisen & sponge iron(e)	Orig.	'000 tonnes	639	630	611	636	614	620	620	678	627	-7.5	-4.5	
		S. adj.	"	651	632	653	639	621	619	624	663	604	-9.0	-5.0	
		Trend	"	637	639	639	636	633	630	628	627	625	-0.3	1.7	
M39	Blooms and slabs of iron or steel(e)	Orig.	"	664	657	618	670	642	655	658	696	666	-4.2	-3.8	
		S. adj.	"	667	650	669	679	659	664	670	694	648	-6.6	-3.6	
		Trend	"	661	662	664	667	669	670	670	670	668	-0.3	1.8	
M40	Insulated wire	Orig.	tonnes	4,529	3,612	6,663	6,549	5,457	6,705	6,037	6,604	6,426	-2.7	-3.4	
		S. adj.	"	5,539	6,104	6,390	5,827	5,734	6,035	6,310	6,216	6,191	-0.4	-3.5	
		Trend	"	6,020	5,989	5,976	5,989	6,014	6,059	6,111	6,160	6,207	0.8	0.4	
M41	Cars and station wagons	Orig.	number	20,843	13,172	26,787	26,050	22,629	30,293	25,310	30,701	25,747	-16.1	-17.2	
		S. adj.	"	26,627	26,546	25,540	25,433	25,924	25,761	25,720	27,208	22,334	-17.9	-13.6	
		Trend	"	25,196	25,583	25,912	26,049	25,948	25,757	25,523	25,204	24,860	-1.4	-1.1	
M42	Vehicles for goods and materials	Orig.	"	1,476	1,003	2,134	2,430	2,168	2,864	2,419	2,830	2,714	-4.1	8.6	
		S. adj.	"	1,942	2,060	2,081	2,234	2,283	2,379	2,478	2,572	2,437	-5.3	14.4	
		Trend	"	1,940	2,008	2,105	2,208	2,300	2,377	2,443	2,494	2,530	1.5	21.8	
M43	Telephones	Orig.	'000	124	72	66	91	79	108	76	101	119	18.4	9.5	
		S. adj.	"	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	Orig.	number	34,485	38,183	37,107	33,988	20,441	36,299	27,261	35,700	29,593	-17.1	-18.7	
		S. adj.	"	37,638	36,365	33,652	31,532	24,079	33,366	32,761	38,557	31,683	-17.8	-14.6	
		Trend	"	36,060	34,397	32,726	31,580	31,208	31,577	32,435	33,375	34,311	2.8	-7.5	
M45	Water heaters	Orig.	"	40,651	21,528	44,569	50,738	38,653	59,112	50,558	r 60,777	56,070	-7.7	-2.4	
		S. adj.	"	46,075	45,655	44,125	45,588	46,632	51,014	49,603	r 55,091	51,111	-7.2	2.1	
		Trend	"	47,932	46,538	45,849	46,153	47,419	49,158	50,737	52,009	53,046	2.0	1.8	
M46	Domestic clothes washing machines	Orig.	"	20,873	10,757	23,619	20,595	15,306	25,940	27,380	31,489	26,685	-15.3	-26.6	
		S. adj.	"	24,793	21,370	23,204	20,537	17,435	25,089	27,200	27,587	21,813	-20.9	-22.2	
		Trend	"	23,970	22,486	21,606	21,589	22,273	23,304	24,292	25,053	25,452	1.6	-5.2	
M47	Electric motors	Orig.	'000	253	158	282	204	185	267	213	228	254	11.2	-18.0	
		S. adj.	"	300	245	259	191	208	234	221	223	242	8.8	-16.4	
		Trend	"	252	248	239	229	221	219	222	226	230	1.8	-8.6	
M48	Electricity	Orig.	mil k Wh	13,420	13,679	13,354	14,043	13,342	14,414	14,366	15,349	14,610	-4.8	-0.3	
		S. adj.	"	13,778	13,940	13,948	14,116	14,169	13,925	13,950	14,106	13,548	-4.0	0.0	
		Trend	"	13,863	13,924	13,992	14,034	14,048	14,020	13,966	13,897	13,826	-0.5	-0.6	
M49	Gas(f)	Orig.	terajoules	43,940	42,024	43,968	47,210	48,910	54,562	58,615	65,895	62,388	-5.3	3.9	
		S. adj.	"	51,787	52,462	52,717	52,385	52,715	50,485	50,295	53,308	52,152	-2.2	5.4	
		Trend	"	51,902	52,222	52,297	52,116	51,924	51,756	51,692	51,738	51,849	0.2	0.5	

For footnotes see page 23.

No.	Item	Series (a)	Unit	1994			1995			1996			Percentage changes between latest quarter shown and-		
				June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	prev. quarter	same quarter prev. year	
Q1	Men's and boys' long trousers	Orig.	'000	1,048	1,039	987	822	944	1,013	756	788	923	17.2	-2.3	
		S. adj.	"	950	1,005	1,006	932	858	977	772	893	839	-6.1	-2.2	
		Trend	"	942	991	982	947	907	880	864	849	840	-1.1	-7.4	
Q2	Women's and girls' long trousers	Orig.	"	188	407	380	628	443	252	202	359	458	27.3	3.3	
		S. adj.	"	175	440	486	510	414	275	261	288	429	48.8	3.6	
		Trend	"	404	449	489	478	403	305	275	313	373	19.1	-7.3	
Q3	Jeans	Orig.	"	945	941	770	641	887	979	764	706	851	20.5	-4.1	
		S. adj.	"	866	826	817	777	813	857	810	858	779	-9.3	-4.1	
		Trend	"	852	828	806	799	812	833	837	824	803	-2.5	-1.1	
Q4	Men's and boys' shirts	Orig.	"	2,867	3,545	2,900	2,347	2,554	2,841	2,741	2,179	2,529	16.1	-0.9	
		S. adj.	"	3,123	2,995	2,688	2,859	2,772	2,404	2,557	2,632	2,741	4.2	-1.1	
		Trend	"	3,102	2,963	2,844	2,767	2,667	2,561	2,539	2,620	2,732	4.3	2.4	
Q5	Women's shirts and blouses	Orig.	"	812	1,787	1,218	806	864	1,202	1,132	697	674	-3.4	-22.0	
		S. adj.	"	1,021	1,388	1,094	1,009	1,076	935	1,017	874	835	-4.4	-22.4	
		Trend	"	1,471	1,314	1,158	1,047	1,006	998	953	898	864	-3.8	-14.2	
Q6	Undressed sawn timber(d)	Orig.	'000 cu m	905	967	916	883	925	956	839	799	n.y.a.	-4.8	-9.5	
		S. adj.	"	886	921	924	940	907	909	849	849	n.y.a.	0.1	-9.7	
		Trend	"	897	916	928	932	918	893	866	843	n.y.a.	-2.6	-9.5	
Q7	Hardwood woodchips	Orig.	'000 tonnes	1,228	1,286	1,417	1,402	1,332	1,334	1,203	1,163	1,128	-3.0	-15.3	
		S. adj.	"	1,223	1,223	1,424	1,477	1,324	1,269	1,211	1,224	1,120	-8.5	-15.4	
		Trend	"	1,171	1,291	1,392	1,420	1,364	1,277	1,225	1,189	1,152	-3.1	-15.5	
Q8	Alumina(d)	Orig.	"	3,209	3,235	3,203	3,203	3,299	3,348	3,297	3,311	3,336	0.8	1.1	
		S. adj.	"	3,217	3,197	3,204	3,232	3,308	3,307	3,302	3,337	3,345	0.2	1.1	
		Trend	"	3,204	3,204	3,210	3,245	3,284	3,307	3,317	3,329	3,343	0.4	1.8	
Q9	Zinc(d)	Orig.	"	81	82	78	72	81	82	85	81	82	1.2	1.2	
		S. adj.	"	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
		Trend	"	82	80	77	77	78	82	84	83	82	-1.4	5.2	
Q10	Silver(d)	Orig.	tonnes	104	88	79	93	89	89	75	90	97	7.8	9.0	
		S. adj.	"	96	88	84	95	83	89	80	91	90	-0.1	9.2	
		Trend	"	93	90	88	88	87	85	85	88	90	2.0	2.7	
Q11	Copper(d)	Orig.	'000 tonnes	87	87	68	71	55	80	65	70	85	21.4	54.5	
		S. adj.	"	89	80	69	75	56	73	67	74	87	17.4	54.5	
		Trend	"	85	81	73	68	66	66	70	76	81	6.8	23.8	
Q12	Lead(d)	Orig.	"	53	49	55	53	49	57	56	54	56	3.7	14.3	
		S. adj.	"	49	48	54	59	46	56	55	59	53	-10.7	14.6	
		Trend	"	53	51	52	54	53	54	56	57	55	-2.4	4.3	
Q13	Tin(d)	Orig.	tonnes	90	75	135	180	65	165	160	r 90	135	50.0	107.7	
		S. adj.	"	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
		Trend	"	59	106	136	138	140	144	145	130	109	-16.1	-22.0	
Q14	Gold(d)	Orig.	"	79	78	71	74	74	75	75	85	83	-1.7	13.0	
		S. adj.	"	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
		Trend	"	76	76	75	73	73	74	78	82	84	2.7	15.8	

(a) Trend estimates shown may have been revised. See paragraph 13 of the Explanatory Notes, on page 26.

(b) Source: Australian Dairy Corporation.

(c) Source: Australian Tobacco Marketing Committee, until April 1995.

(d) Source: Australian Bureau of Agricultural and Resource Economics (ABARE).

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

(f) From July 1996, this data item includes gas production for distribution via natural gas pipelines which service a single user.

(g) Data in this series are subject to significant revisions and will be published when those revisions are 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 12 to 14 of the Explanatory Notes).

### TREND REVISIONS

The example in the table below shows four illustrative scenarios and the consequent revisions to previous trend estimates of flour of wheat or of meslin production.

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

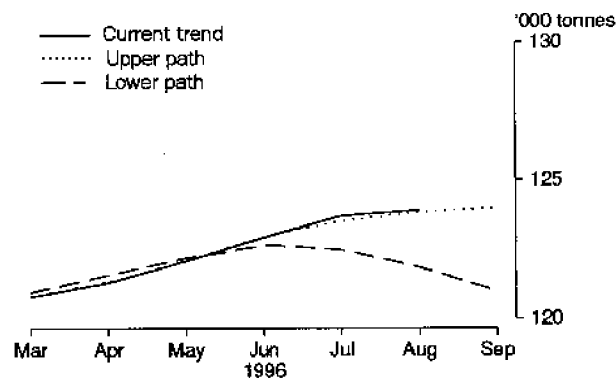
The percentage change of 3% was chosen because it represents the average absolute monthly percentage change for this series since July 1989.

### M5 FLOUR OF WHEAT OR OF MESLIN TREND SERIES ('000 tonnes)

		WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:			
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
		120	124	117	123
TREND as PUBLISHED		<i>i.e. the same as Aug 1996</i>	<i>i.e. rises by 3%</i>	<i>i.e. falls by 3% for Aug and Sep</i>	<i>i.e. same trend</i>
1996					
June	123	123	123	123	123
July	124	123	124	122	123
August	124	123	124	122	124
September (new)	—	122	124	121	124

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 FLOUR OF WHEAT OR OF MESLIN





# EXPLANATORY NOTES

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## 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 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 fuels, sawn timber and quarterly estimates of base metal production are obtained from the Australian Bureau of Agricultural and Resource Economics publications *Mineral Statistics* and *Forest Products Statistics*.

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

## COMPARABILITY WITH OTHER ESTIMATES

**8** 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.

**9** 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 8.

## EXPLANATORY NOTES *continued*

### SEASONALLY ADJUSTED AND TREND ESTIMATES

**10** 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.

**11** 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 effect of strikes, holiday shutdowns 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.

**12** 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.

**13** 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.

**14** 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

**15** 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

## EXPLANATORY NOTES *continued*

### UNPUBLISHED STATISTICS

**16** 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 and gas
- semi-trailers
- mineral waters and aerated waters
- starches, wheat gluten and glucose
- flour
- beer
- 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

**17** Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (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.

### EFFECTS OF ROUNDING

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

## APPENDIX : Clarification of Production Item Terms

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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.
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 Production Item Terms *continued***

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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.
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	Excludes 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.

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**APPENDIX : Clarification of Production Item Terms *continued***

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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.



