



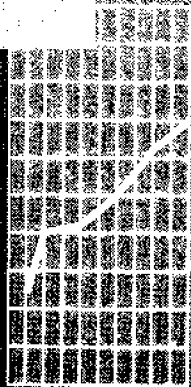
September 1996

EMBARGOED UNTIL 11.30 AM THURS 31 OCTOBER 1996

# Manufacturing Production

## Australia

*Statistics*



# NOTES

## FORTHCOMING ISSUES

ISSUE	RELEASE DATE
October 1996	3 December 1996
November 1996	7 January 1997
December 1996	4 February 1997

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## IN THIS ISSUE

This publication presents monthly and quarterly estimates of selected major indicators of manufacturing production for Australia.

From page 5, there are two graphs shown for each available manufactured commodity. The left hand graph shows seasonally adjusted (where available) and trend estimates over the last four years. The right hand graph presents a short-term sensitivity analysis of the trend estimates. The sensitivity analysis shows the current trend and two possible scenarios of how the trend might move if the next seasonally adjusted estimate rises or falls by the historical average monthly or quarterly movement for that series. A worked example is shown on page 24.

Revised data for the series 'M32 Polyethylene bottles up to two litres' have been inserted in this issue, after significant revisions. Data for this series were last published in the July 1996 issue. Significant revisions for the series 'M3 Cheese' have also been applied in this issue.

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## EFFECTS OF ROUNDING

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

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## SYMBOLS AND OTHER USAGES

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.

Dennis Trewin  
Acting Australian Statistician

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# KEY POINTS

## GENERAL TRENDS

Latest trends indicate that of the 58 indicators available, 21 showed rising production trends, 25 showed falling trends while 12 were relatively stable.

	Indicators available	PUBLISHED PRODUCTION TREND:		
		Rising	Falling	Stable
July 1996 issue	58	31	19	8
August 1996 issue	58	26	19	13
September 1996 issue	58	21	25	12

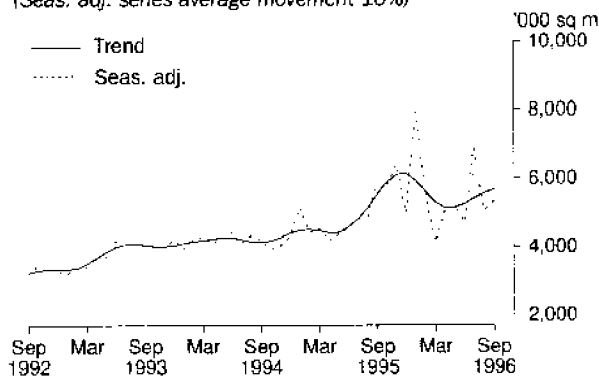
## SERIES TRENDS

Two of the more notable trends were production of Cotton woven fabric and Water heaters. Cotton woven fabric rose again by 2%, having previously risen every month since April 1996. The trend will fall in October 1996 unless the seasonally adjusted series rises by more than 8% (the average movement for this series is 10%).

Production of water heaters fell in September 1996, for the first time since February 1996. This series will require a rise in the seasonally adjusted series of nearly 12% for trend growth to resume in October 1996 (the average movement for this series is 7%).

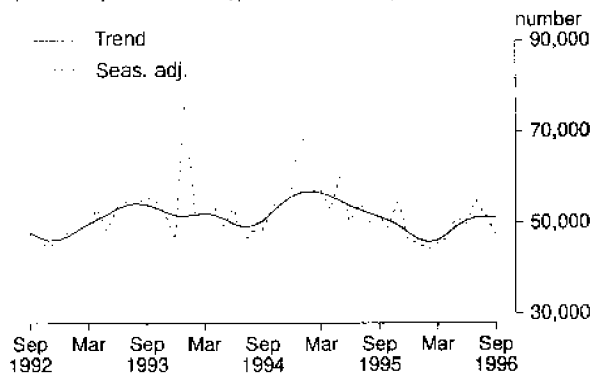
### M14 COTTON WOVEN FABRIC

(Seas. adj. series average movement 10%)



### M45 WATER HEATERS

(Seas. adj. series average movement 7%)

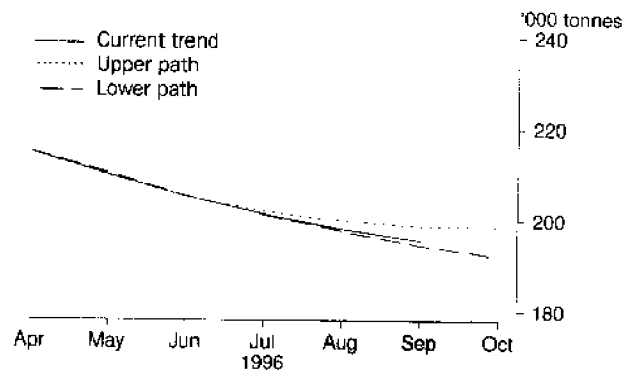
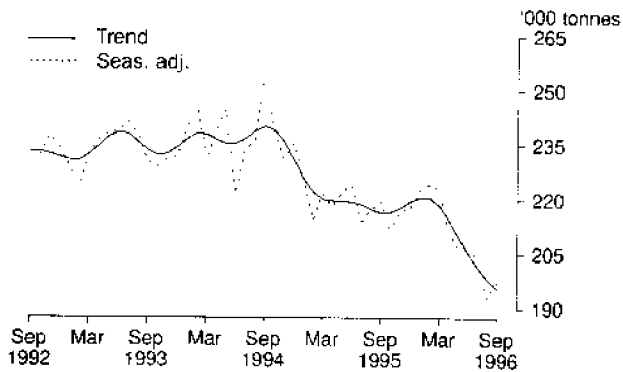


# M MONTHLY PRODUCTION

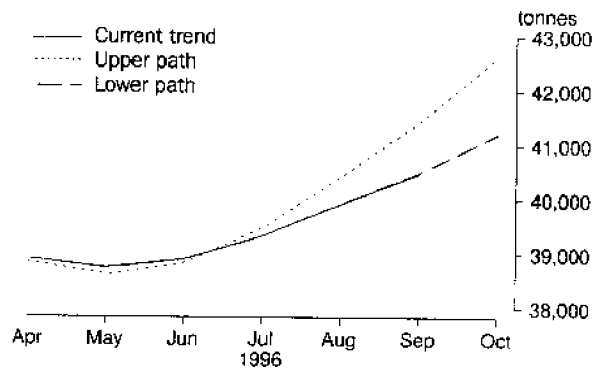
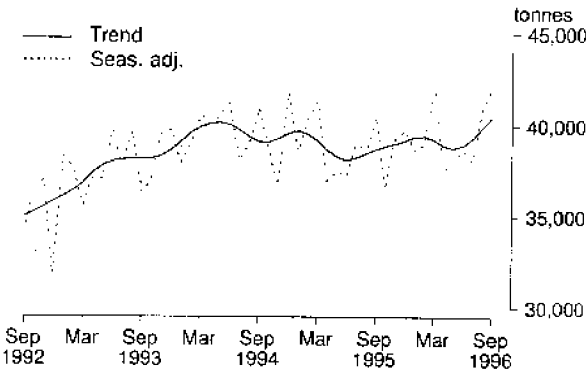
## Longer term trend(a)

## Short-term sensitivity analysis

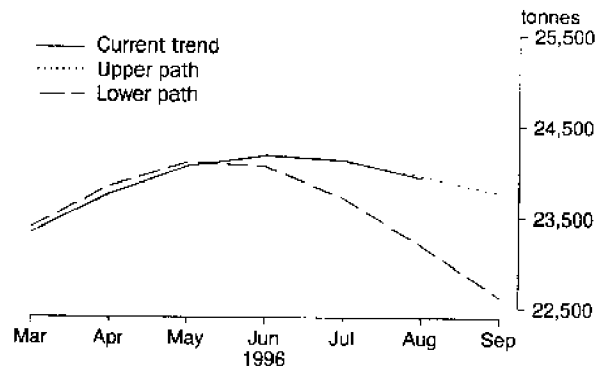
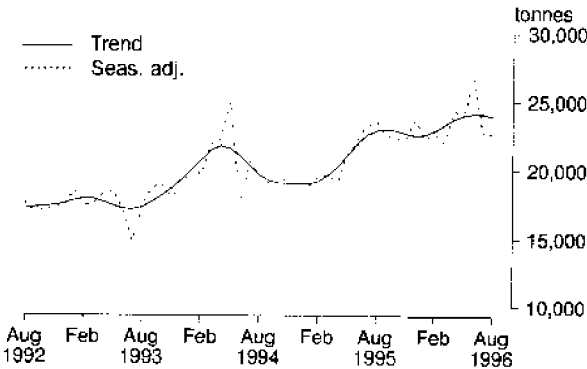
### M1 RED MEAT (seasonally adjusted series average movement 4%)



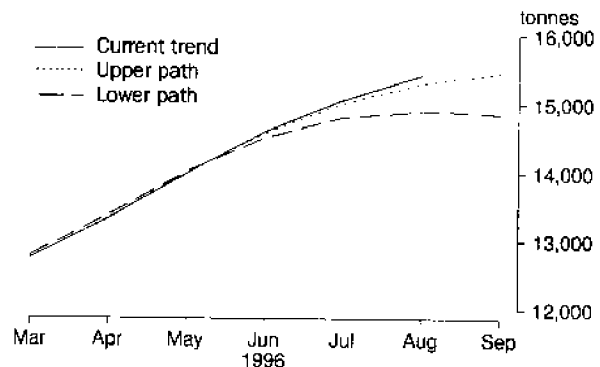
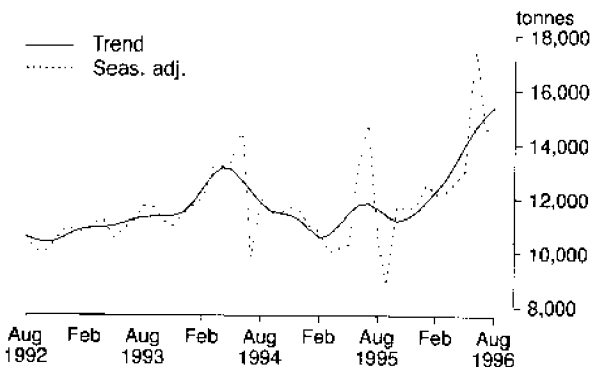
### M2 CHICKEN MEAT (seasonally adjusted series average movement 4%)



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



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

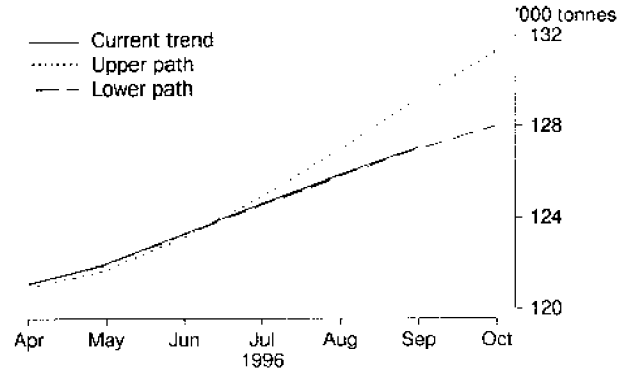
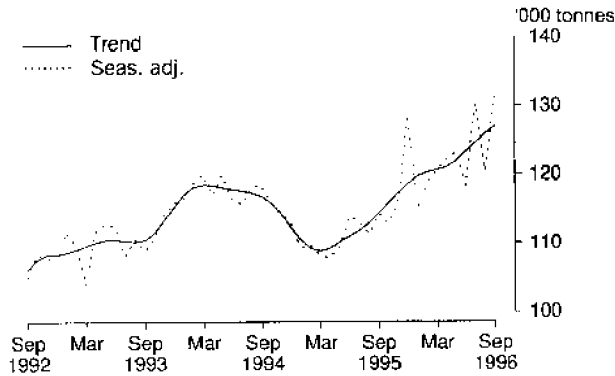


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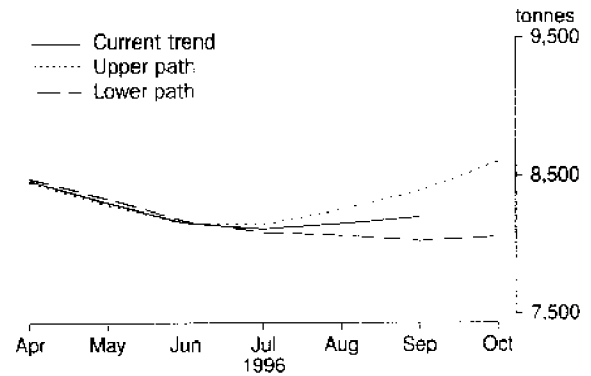
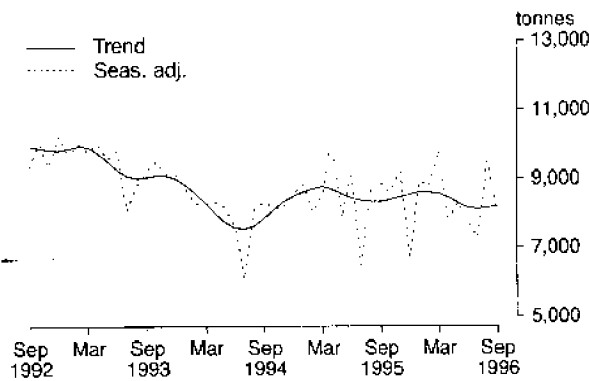
Longer term trend (a)

Short-term sensitivity analysis

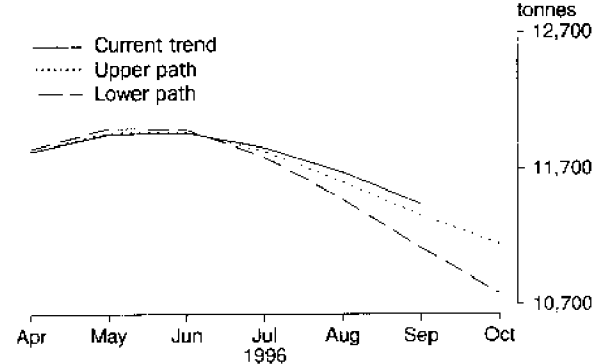
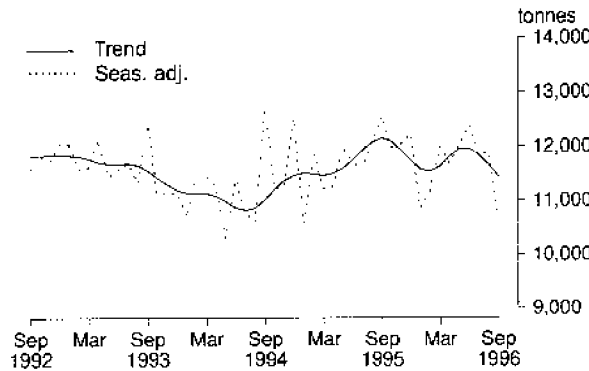
**M5 FLOUR OF WHEAT OR OF MESLIN** (seasonally adjusted series average movement 3%)



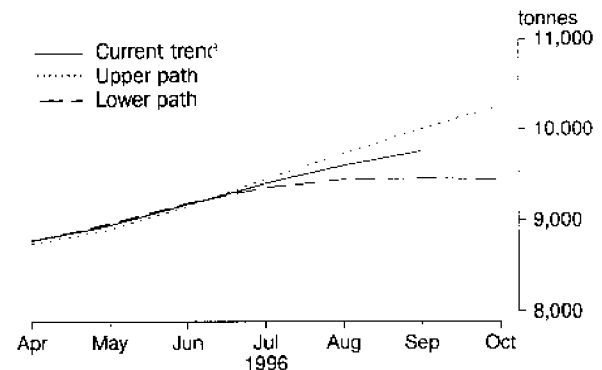
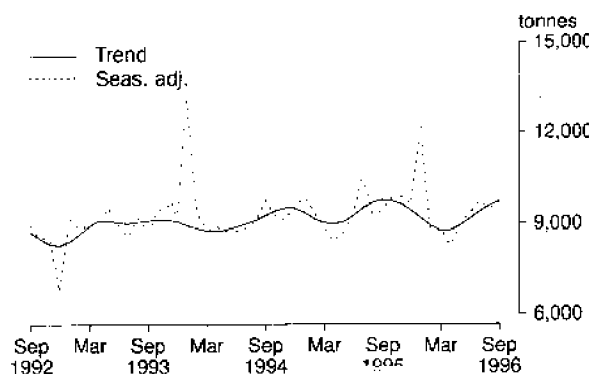
**M6 PREPARED FOODS FROM CEREALS** (seasonally adjusted series average movement 8%)



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



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



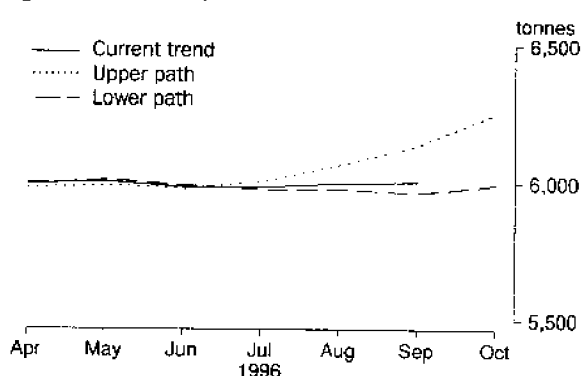
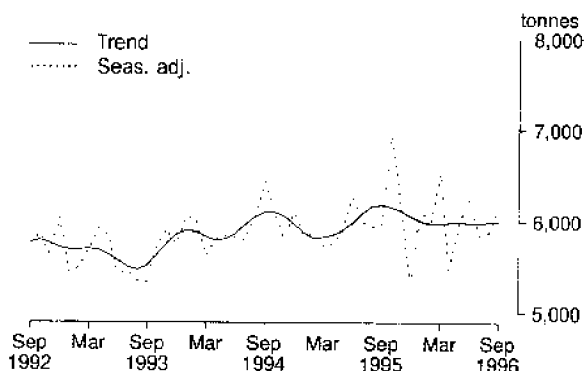
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# M MONTHLY PRODUCTION *continued*

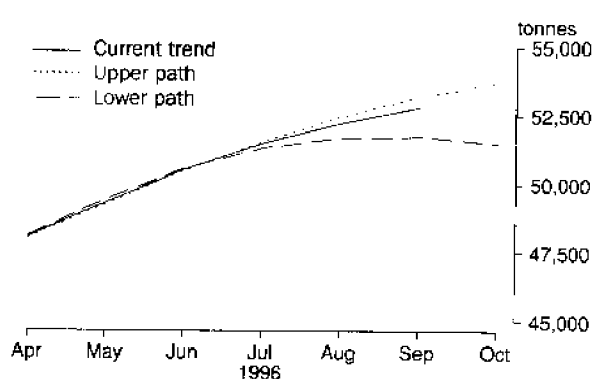
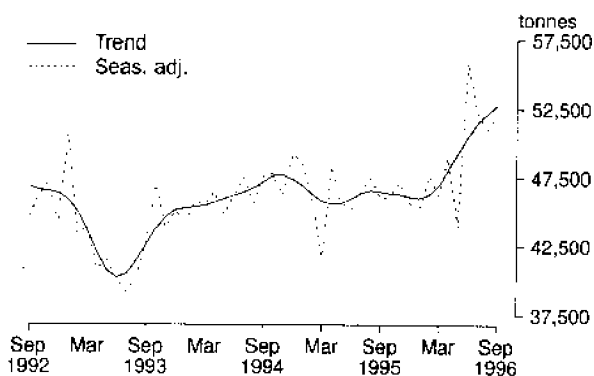
Longer term trend(a)

Short-term sensitivity analysis

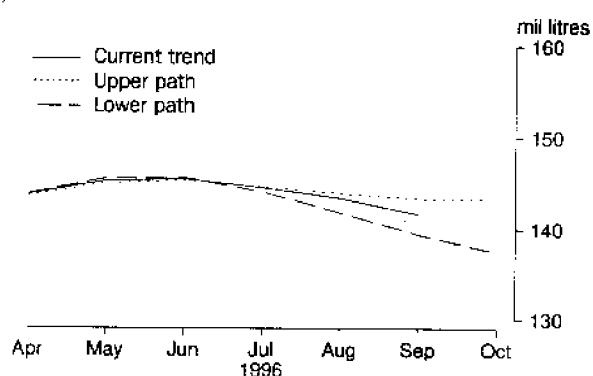
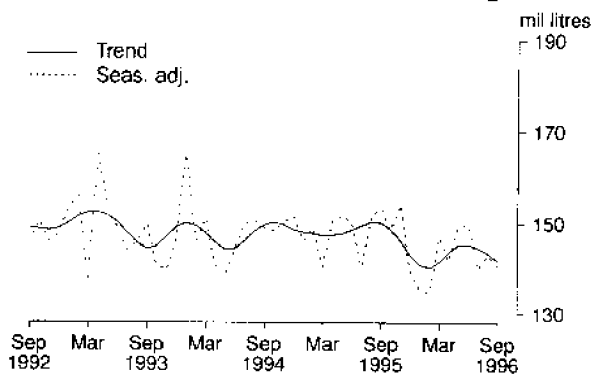
## M9 OTHER CONFECTIONERY (seasonally adjusted series average movement 5%)



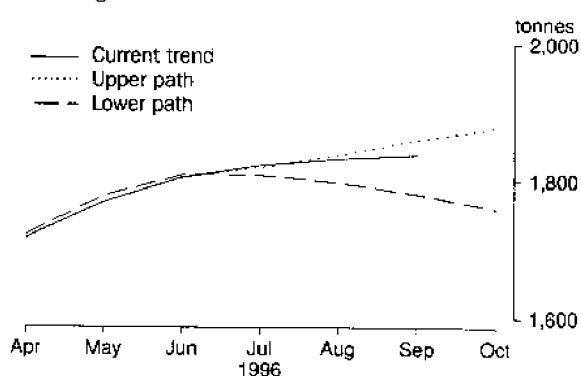
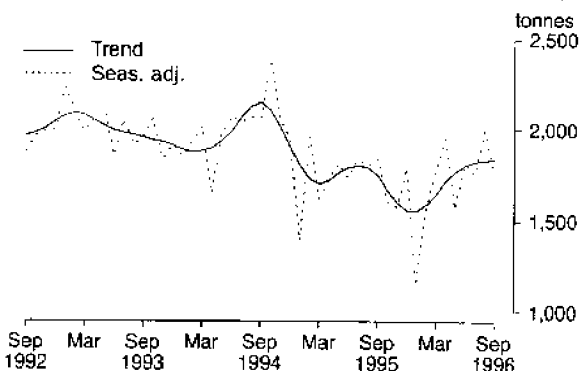
## M10 MALT (seasonally adjusted series average movement 5%)



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



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

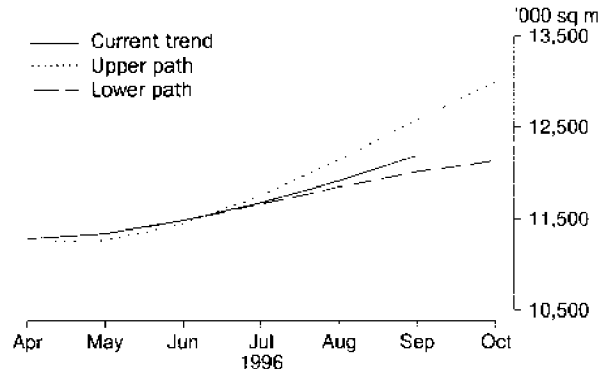
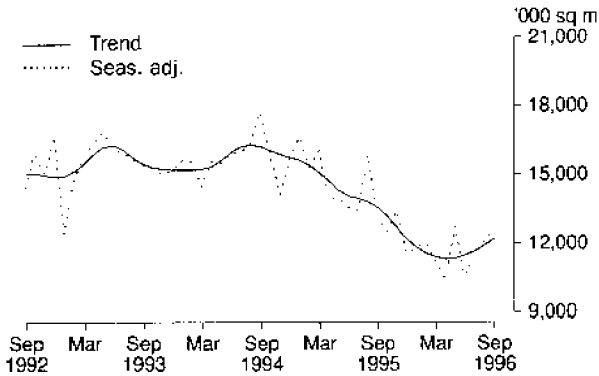


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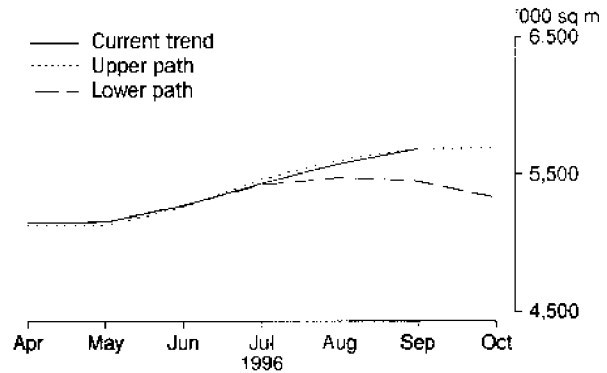
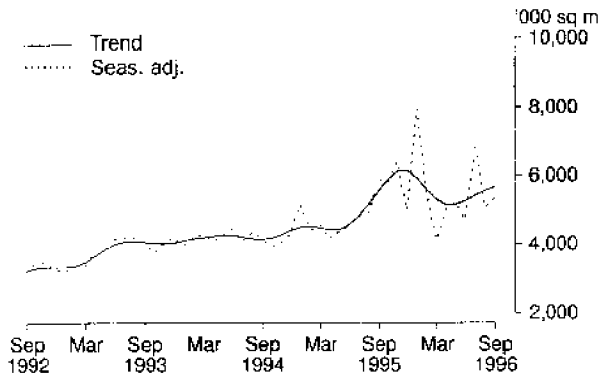
Longer term trend (a)

Short-term sensitivity analysis

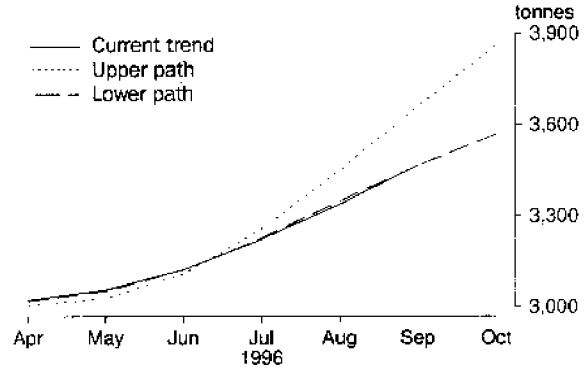
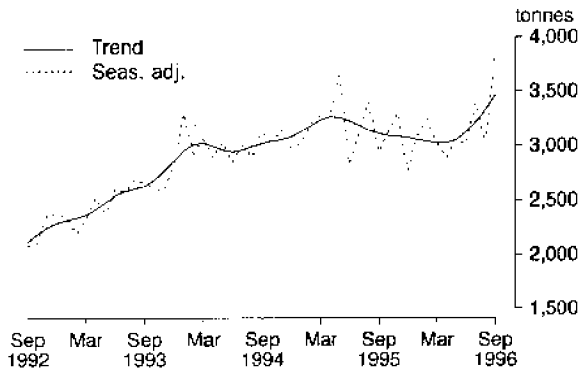
**M13 MAN-MADE FIBRE WOVEN FABRIC** (seasonally adjusted series average movement 8%)



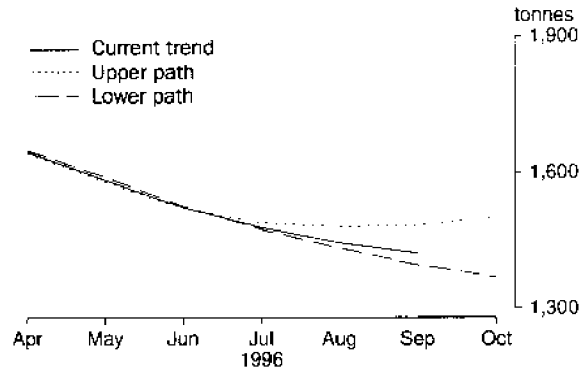
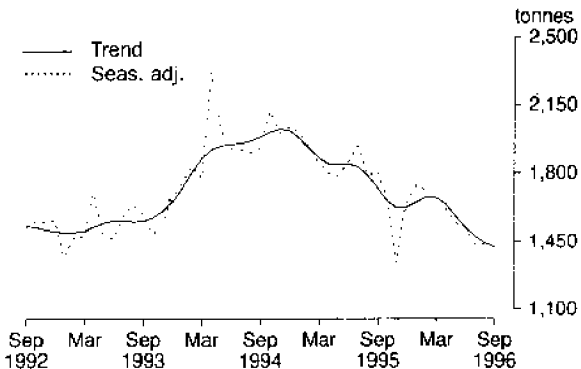
**M14 COTTON WOVEN FABRIC** (seasonally adjusted series average movement 10%)



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



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



For footnotes see page 23.



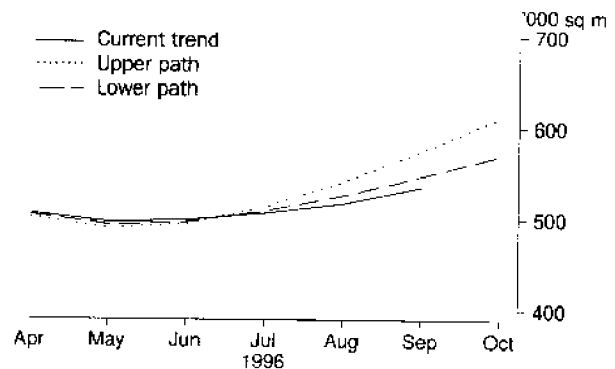
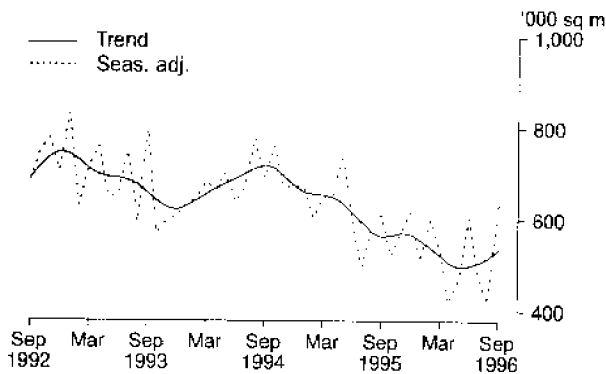
# M

## MONTHLY PRODUCTION *continued*

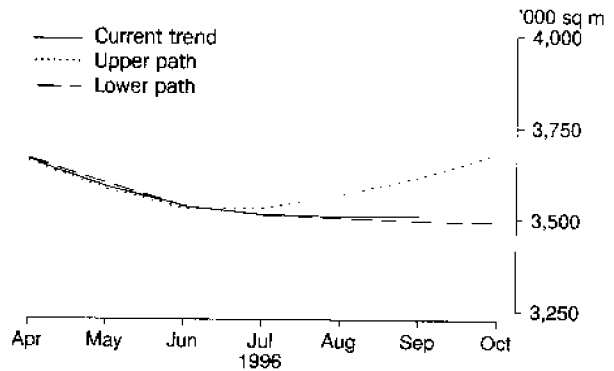
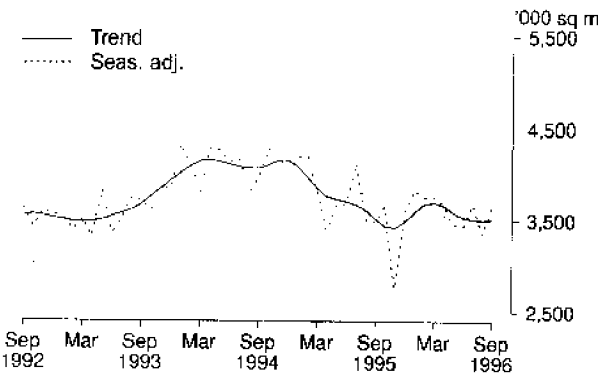
Longer term trend (a)

Short-term sensitivity analysis

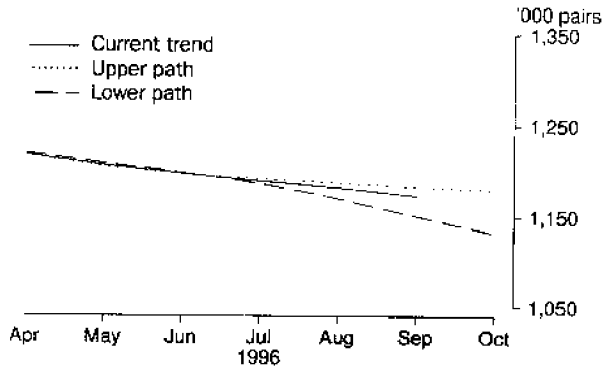
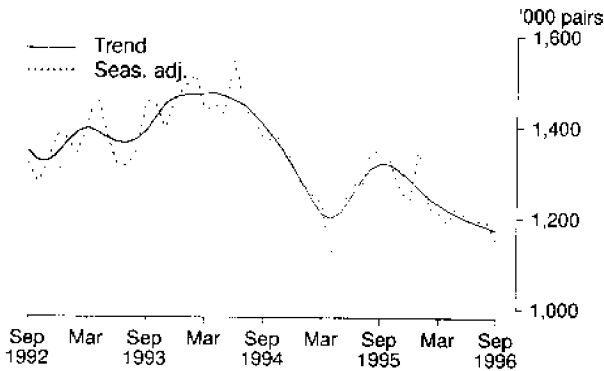
### M17 WOOL WOVEN FABRIC *(seasonally adjusted series average movement 8%)*



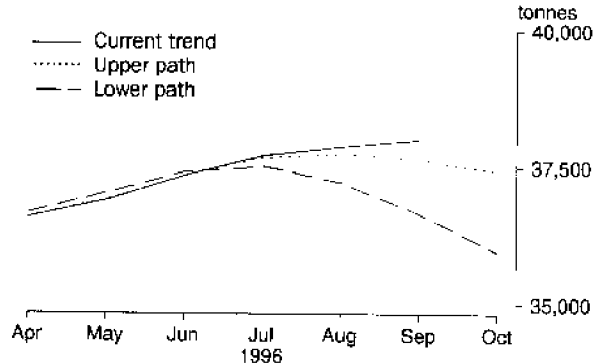
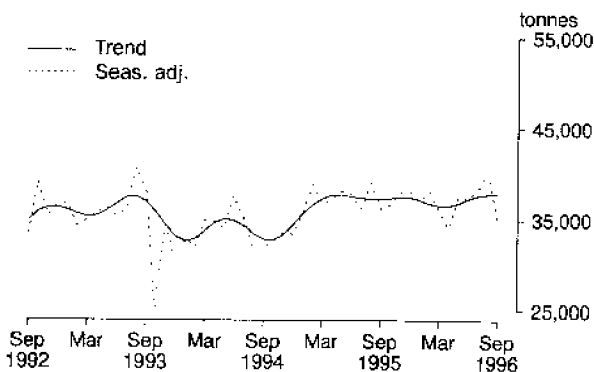
### M18 TEXTILE FLOOR COVERINGS *(seasonally adjusted series average movement 6%)*



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



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

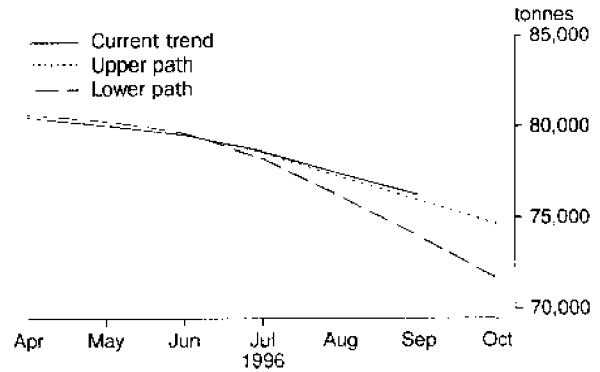
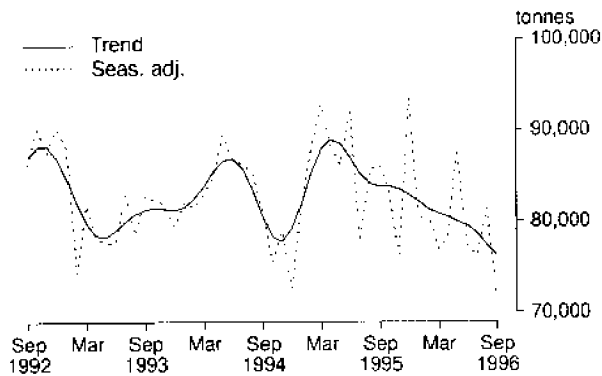


For footnotes see page 23.

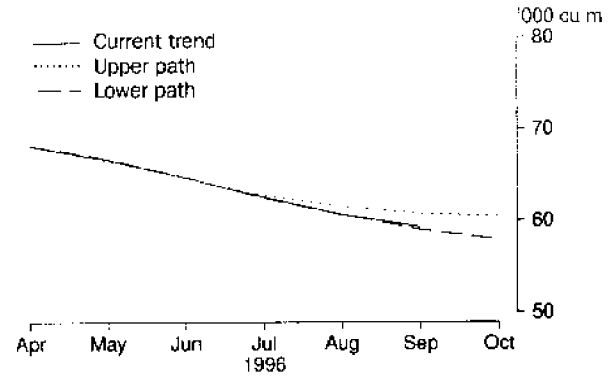
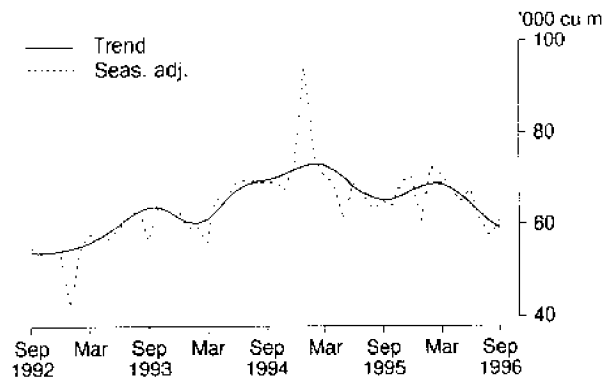
Longer term trend (a)

Short-term sensitivity analysis

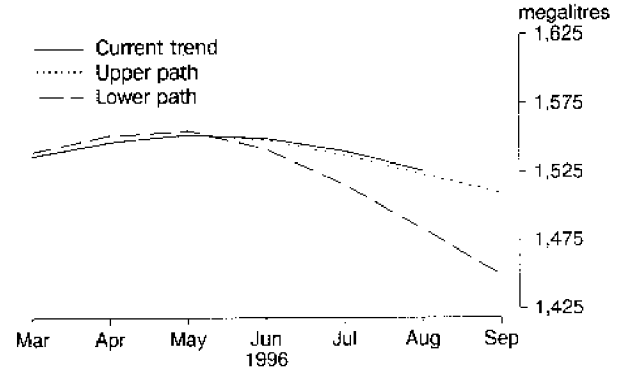
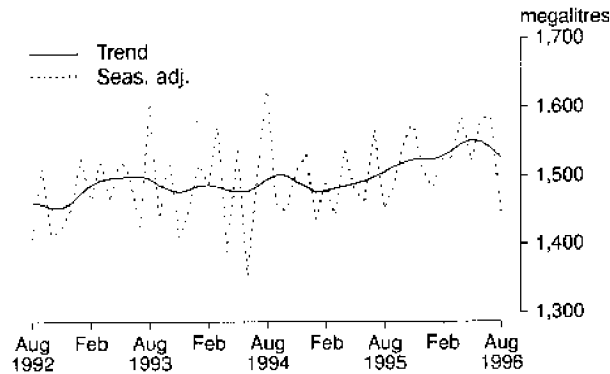
**M22 WOOD PULP** (seasonally adjusted series average movement 4%)



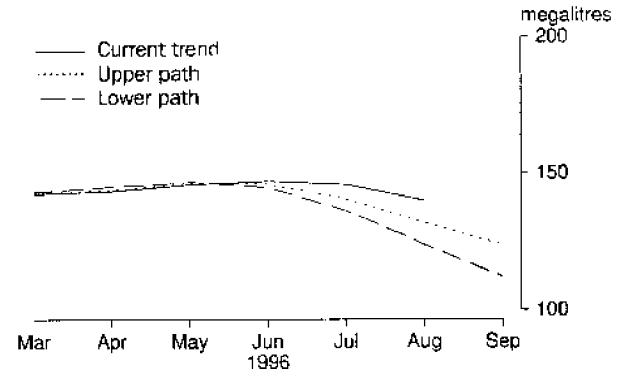
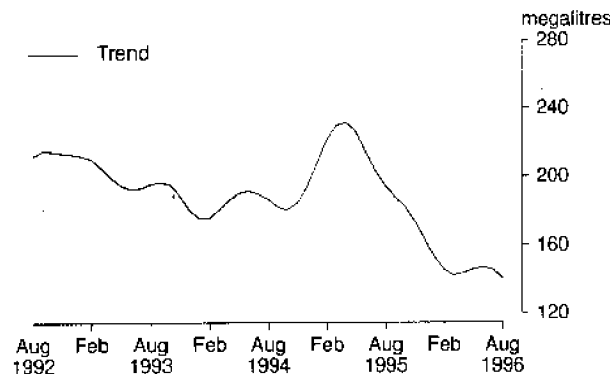
**M23 UNLAMINATED PARTICLE BOARD** (seasonally adjusted series average movement 5%)



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



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



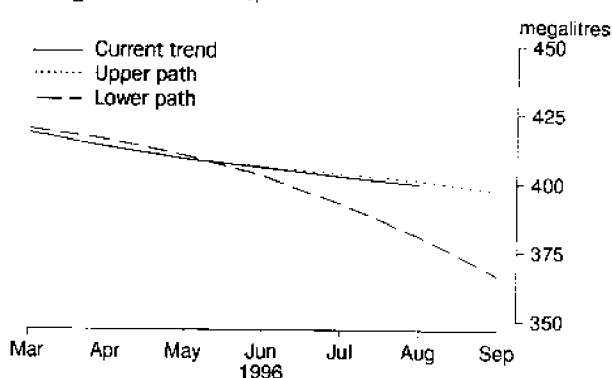
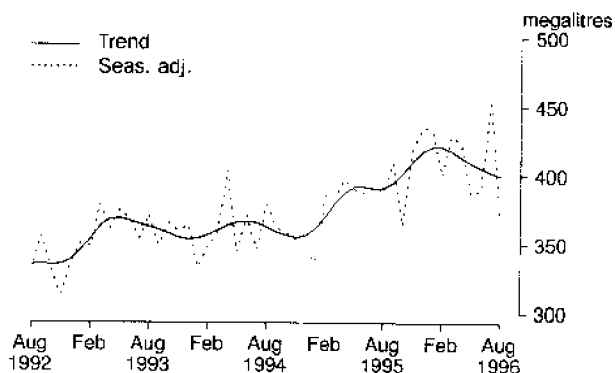
For footnotes see page 23.

# M MONTHLY PRODUCTION *continued*

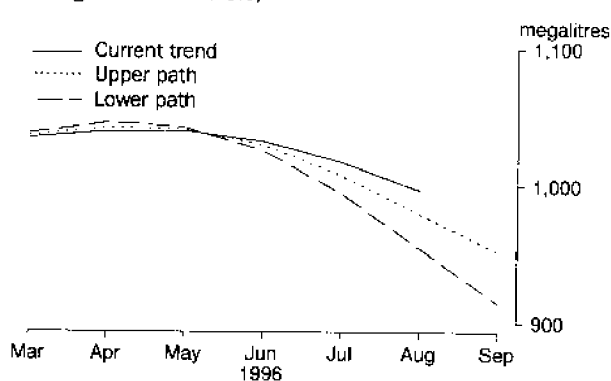
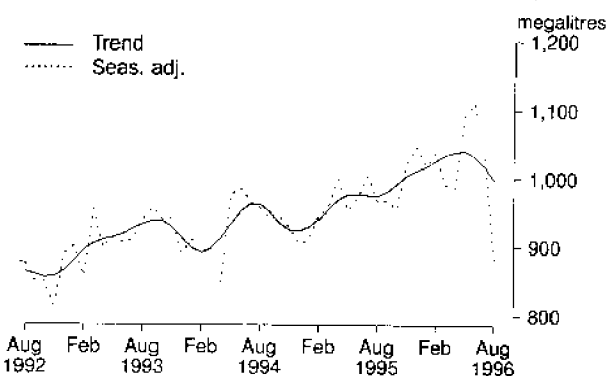
Longer term trend(a)

Short-term sensitivity analysis

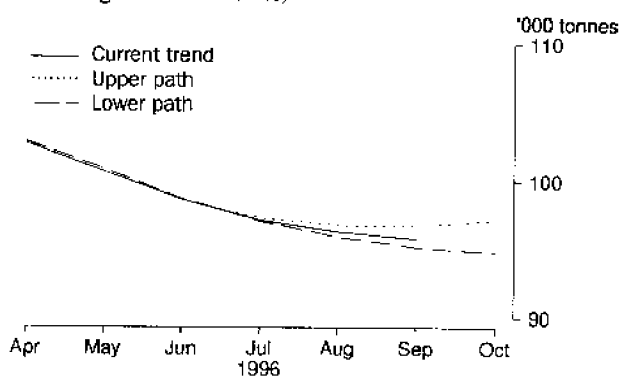
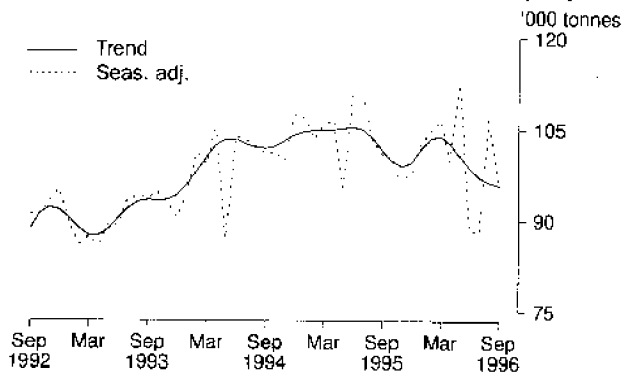
## M28 AVIATION TURBINE FUEL(d) *(seasonally adjusted series average movement 9%)*



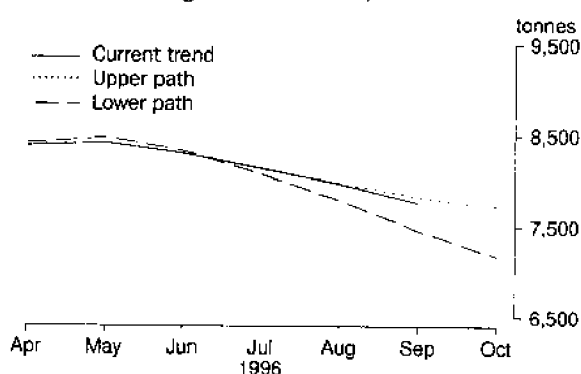
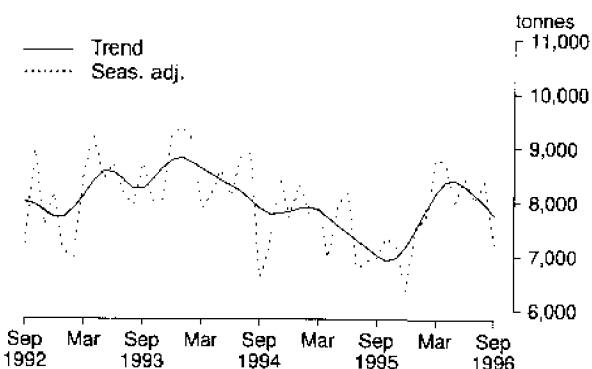
## M29 AUTOMOTIVE DIESEL OIL(d) *(seasonally adjusted series average movement 5%)*



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



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

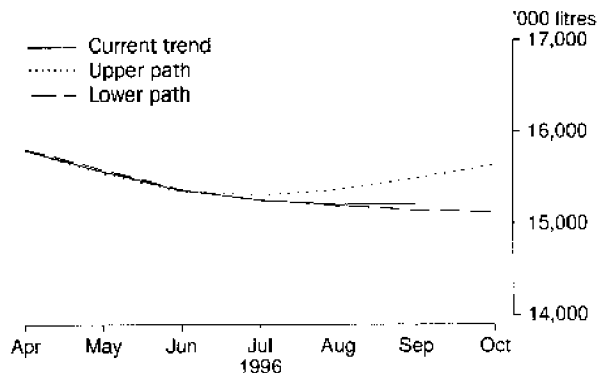
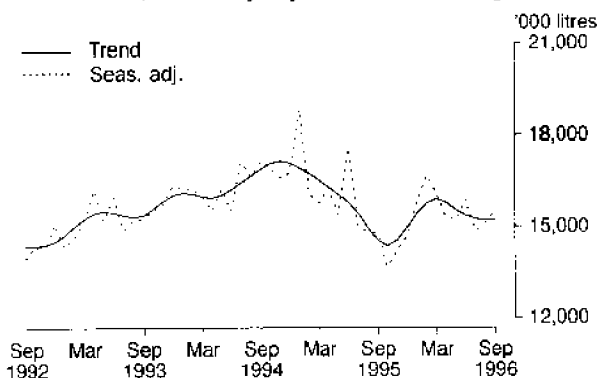


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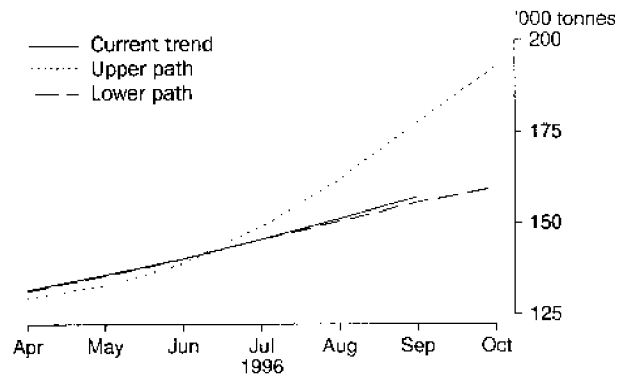
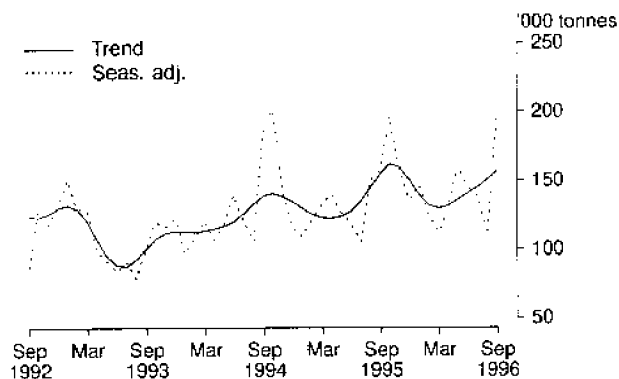
## Longer term trend (a)

## Short-term sensitivity analysis

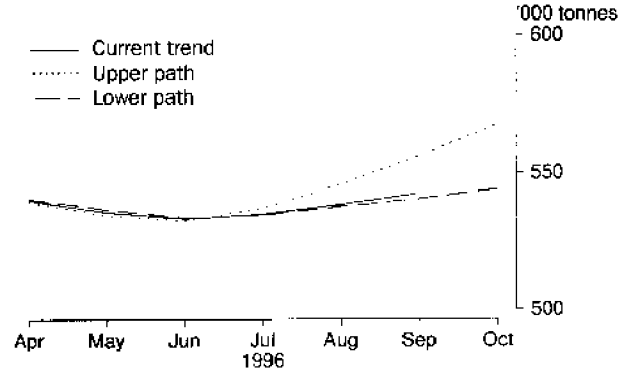
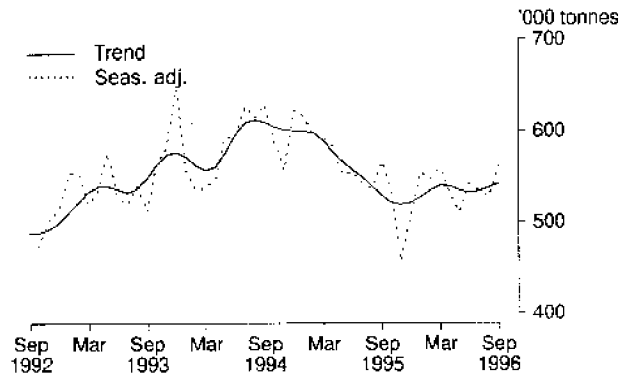
**M33 PAINT** (seasonally adjusted series average movement 4%)



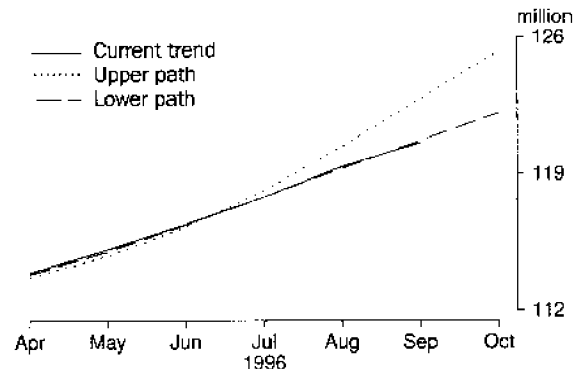
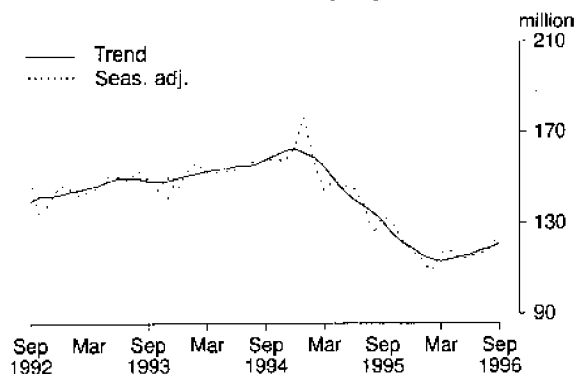
**M34 SUPERPHOSPHATES** (seasonally adjusted series average movement 15%)



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



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

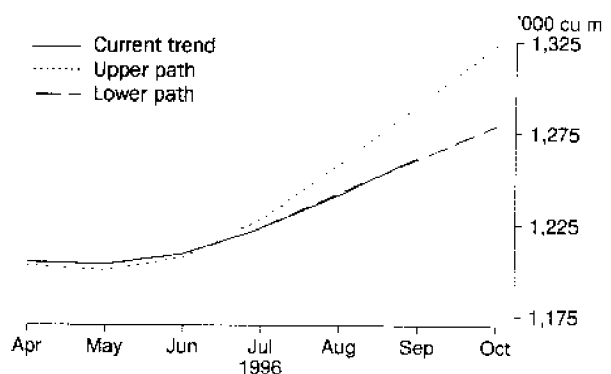
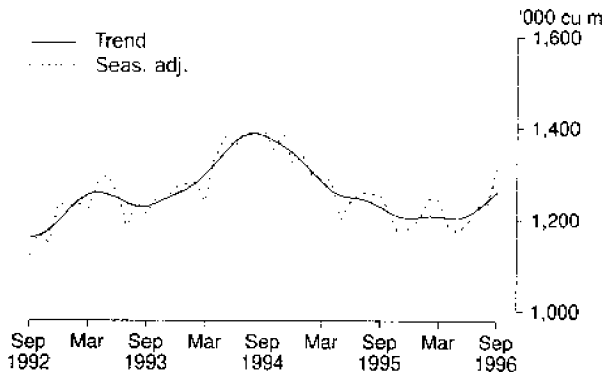


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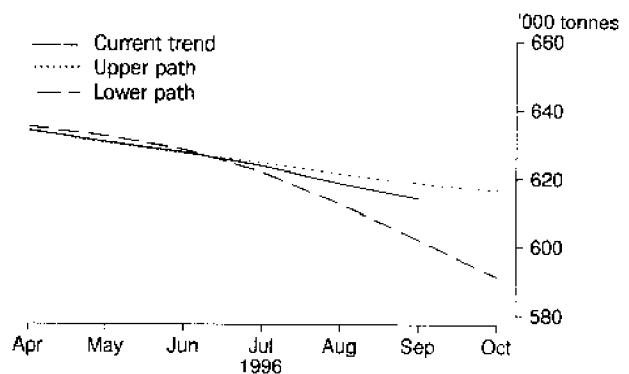
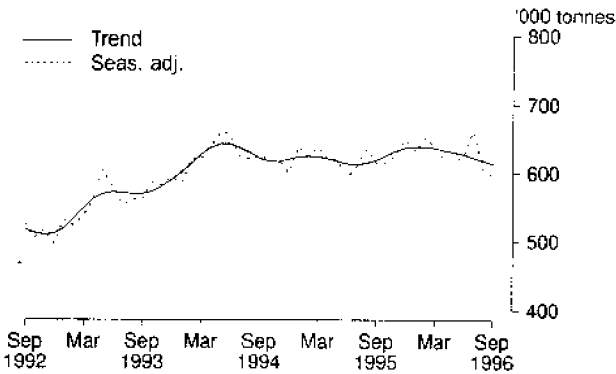
Longer term trend(a)

Short-term sensitivity analysis

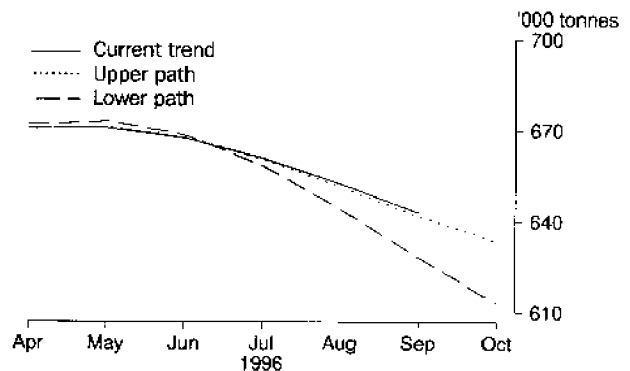
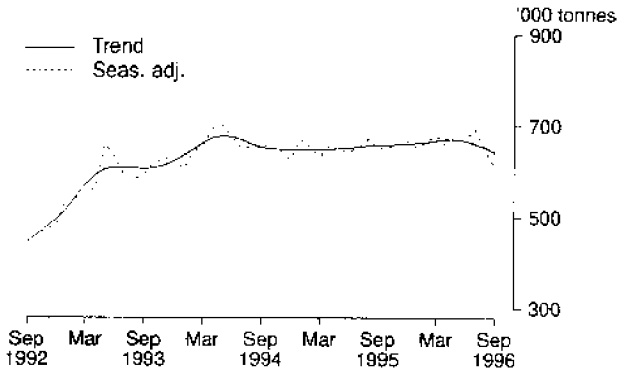
**M37 READY MIXED CONCRETE** (seasonally adjusted series average movement 4%)



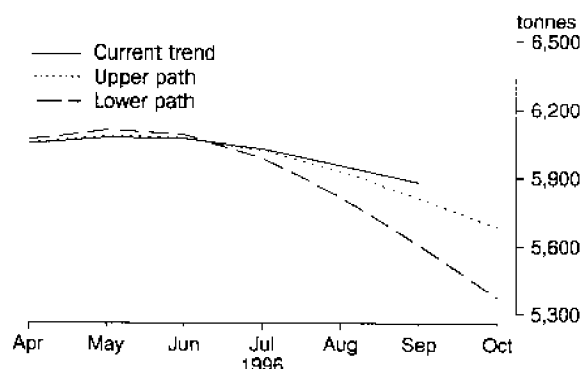
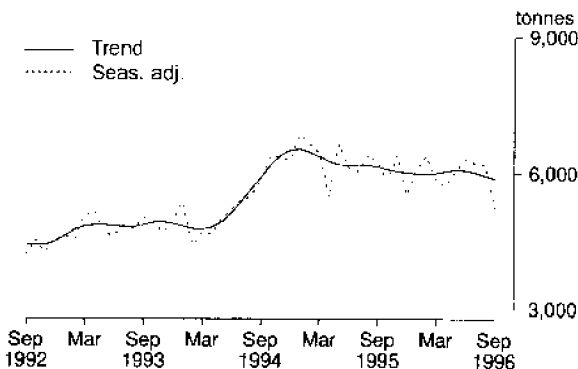
**M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(e)** (seasonally adjusted series average movement 5%)



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



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

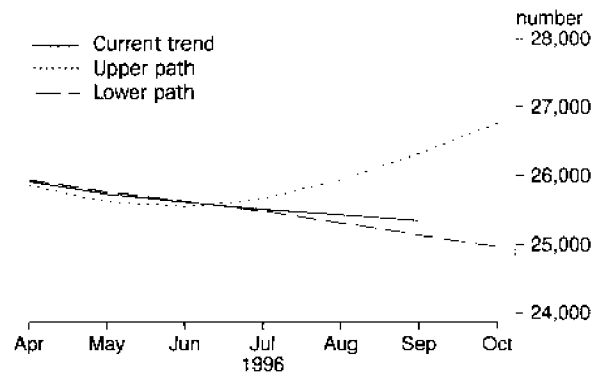
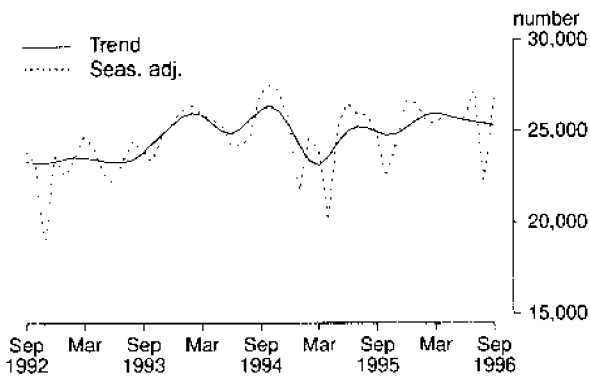


For footnotes see page 23.

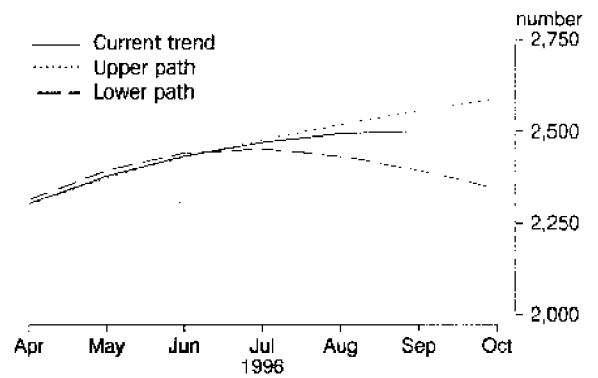
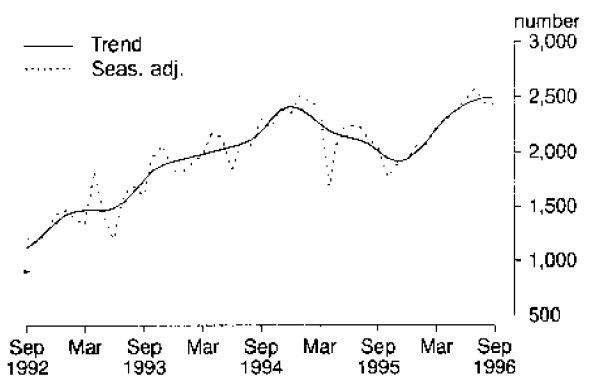
Longer term trend(a)

Short-term sensitivity analysis

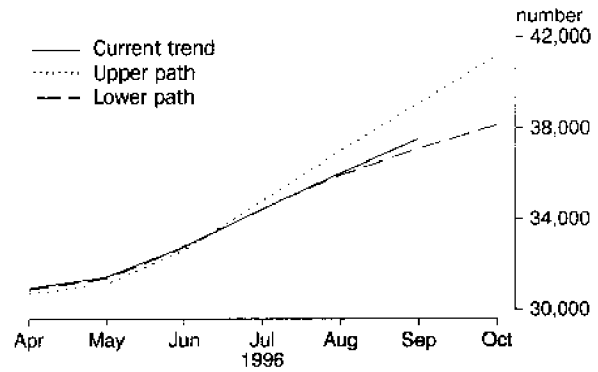
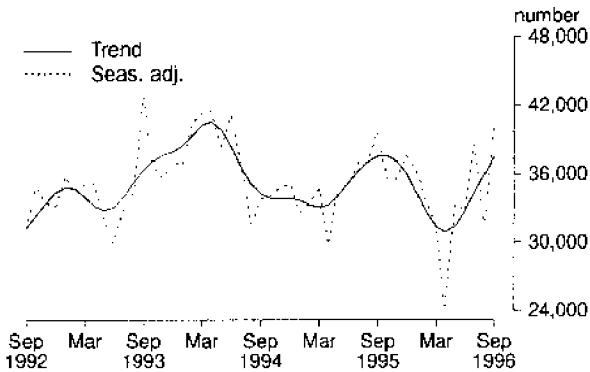
**M41 CARS AND STATION WAGONS** (seasonally adjusted series average movement 8%)



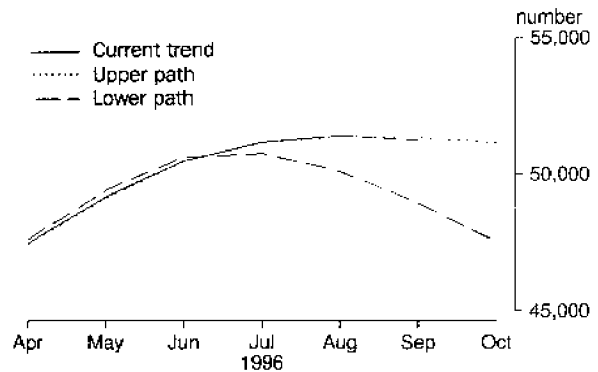
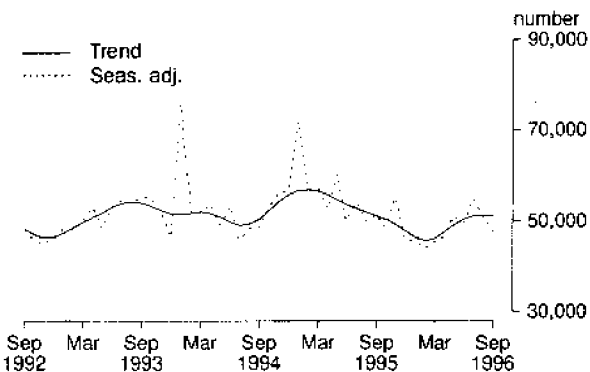
**M42 VEHICLES FOR GOODS AND MATERIALS** (seasonally adjusted series average movement)



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



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



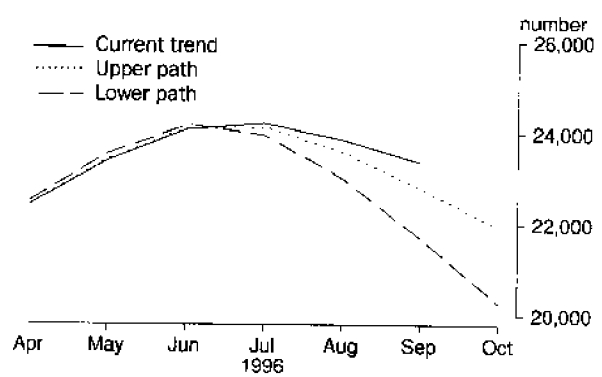
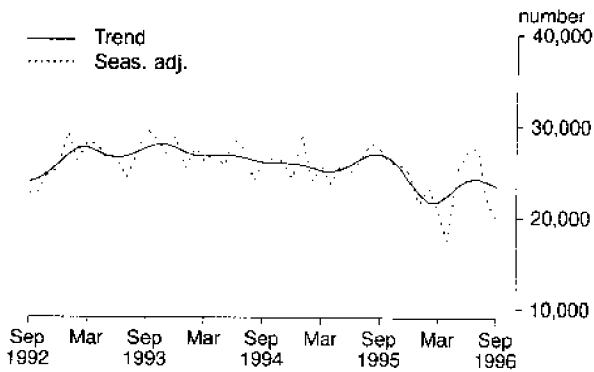
For footnotes see page 23.

# M MONTHLY PRODUCTION *continued*

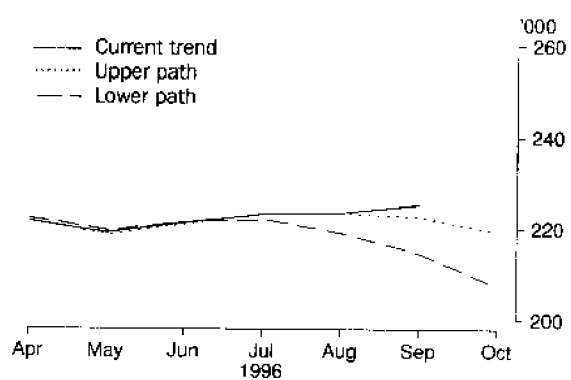
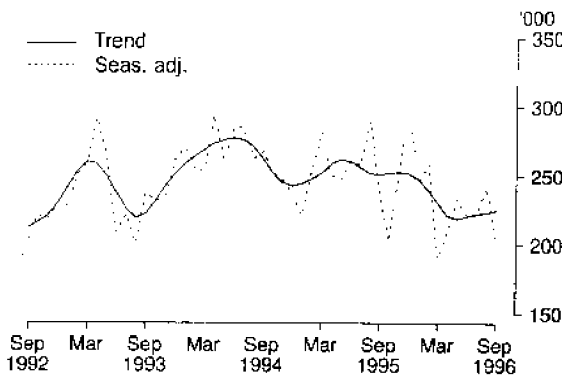
Longer term trend (a)

Short-term sensitivity analysis

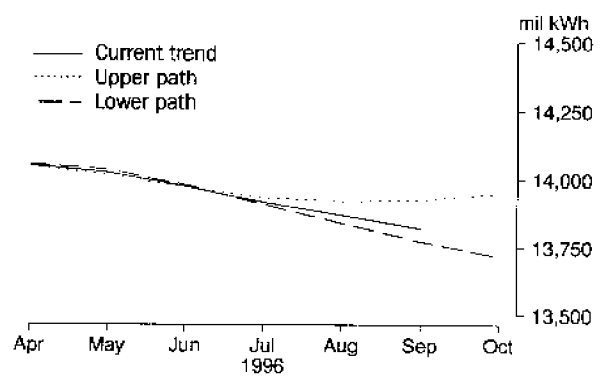
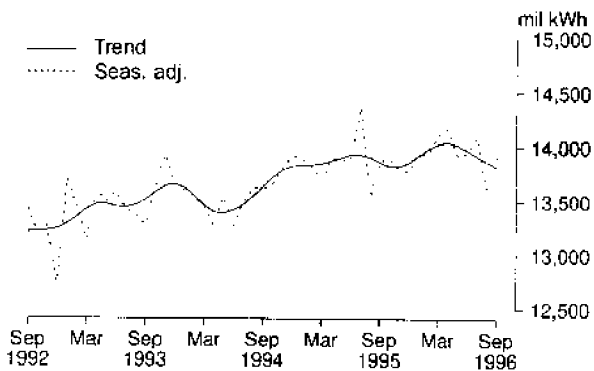
## M46 DOMESTIC CLOTHES WASHING MACHINES *(seasonally adjusted series average movement 9%)*



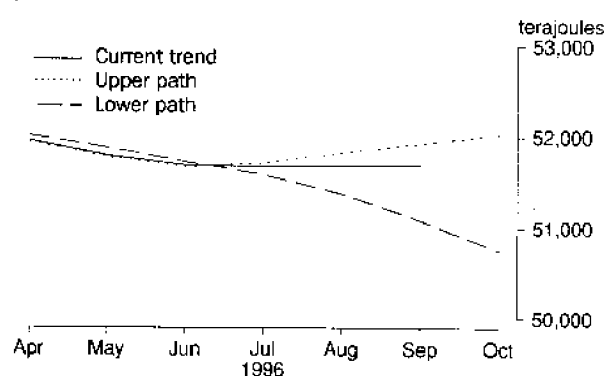
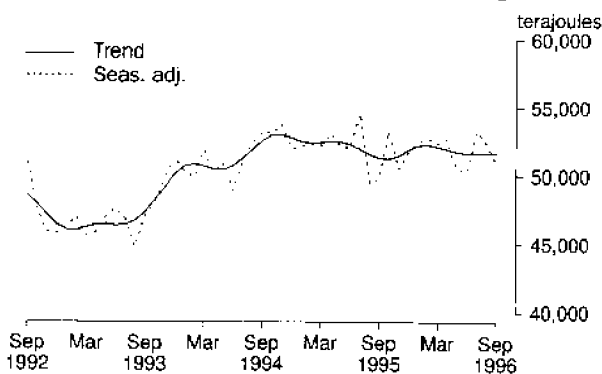
## M47 ELECTRIC MOTORS *(seasonally adjusted series average movement 7%)*



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



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



For footnotes see page 23.

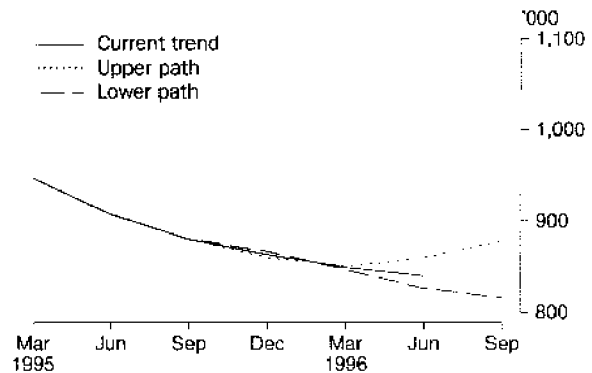
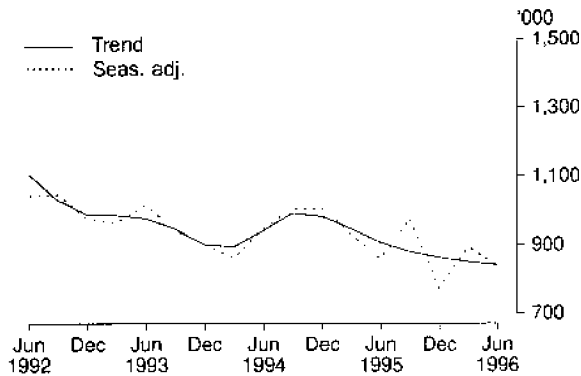
# Q

## QUARTERLY PRODUCTION

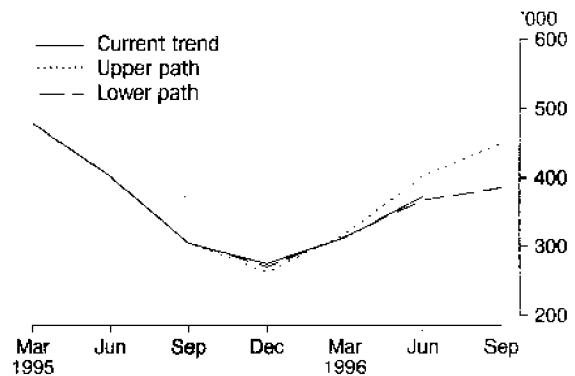
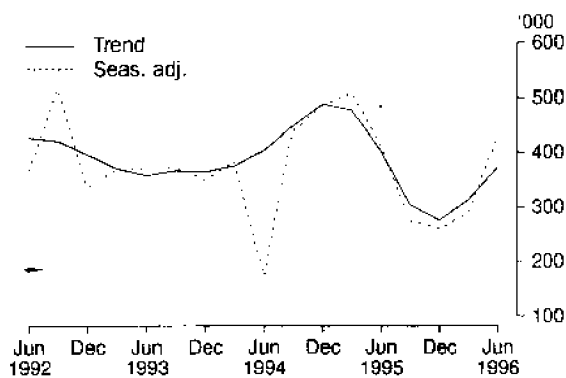
Longer term trend(a)

Short-term sensitivity analysis

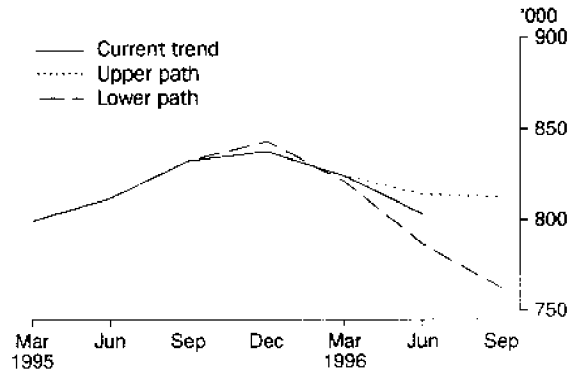
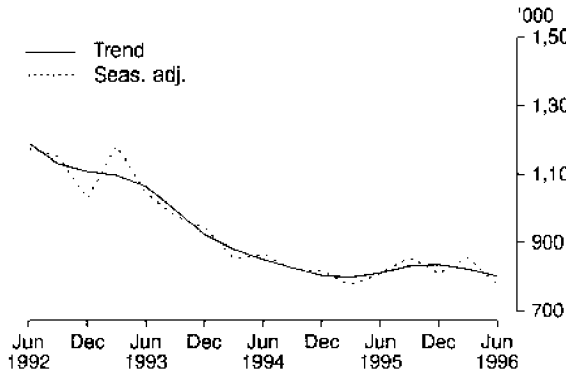
### Q1 MEN'S AND BOYS' LONG TROUSERS (seasonally adjusted series average movement 7%)



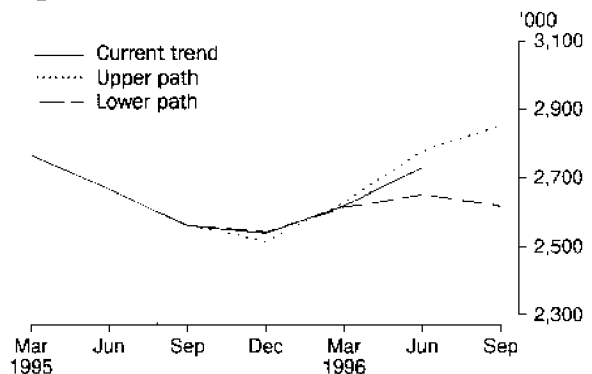
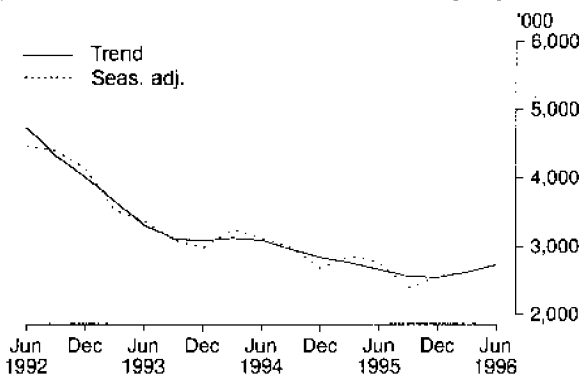
### Q2 WOMEN'S AND GIRLS' LONG TROUSERS (seasonally adjusted series average movement 14%)



### 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.



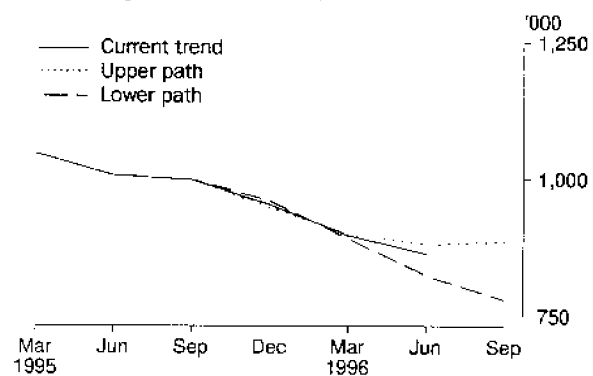
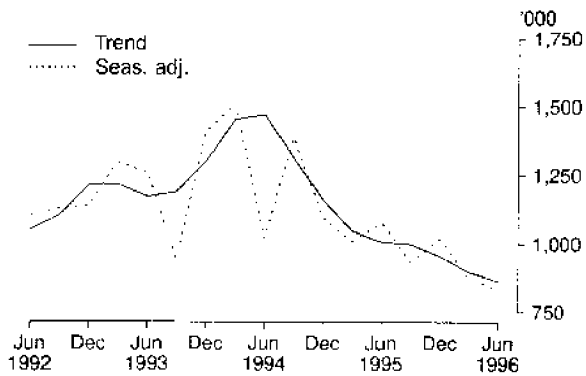
# Q

## QUARTERLY PRODUCTION *continued*

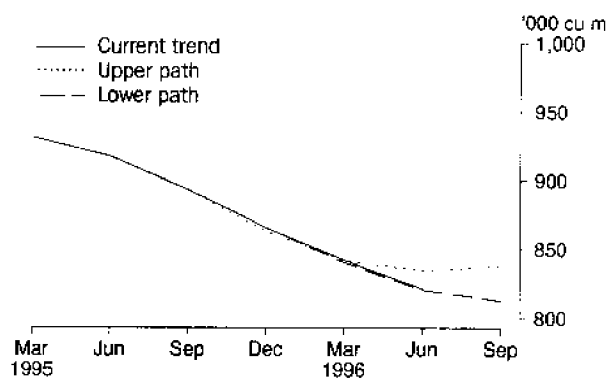
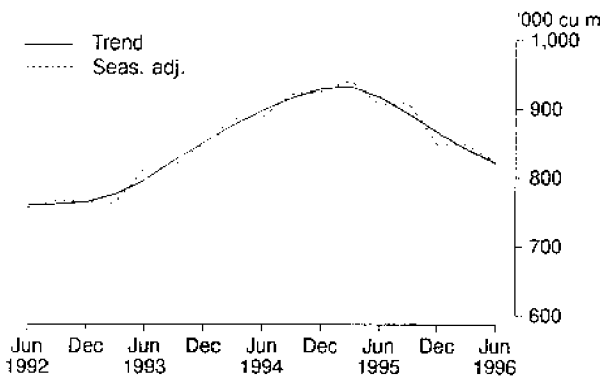
### Longer term trend(a)

### Short-term sensitivity analysis

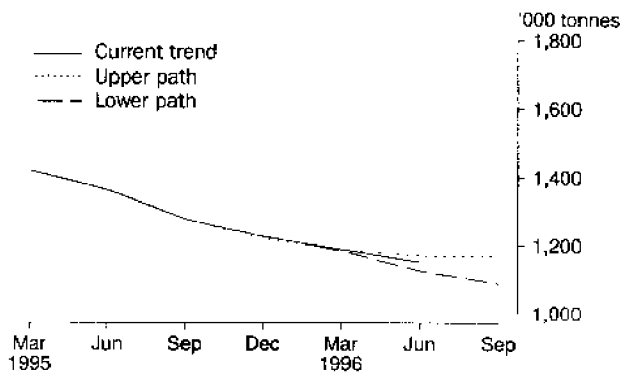
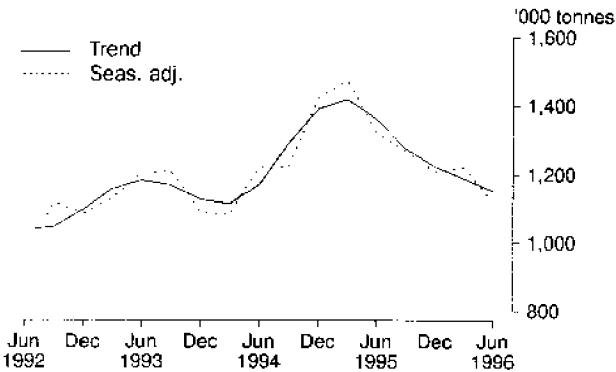
#### Q5 WOMEN'S SHIRTS AND BLOUSES (seasonally adjusted series average movement 12%)



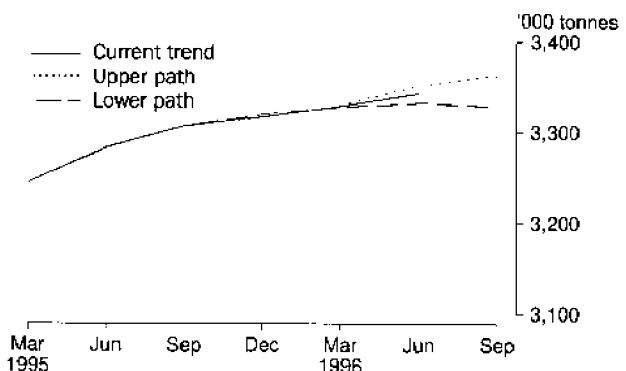
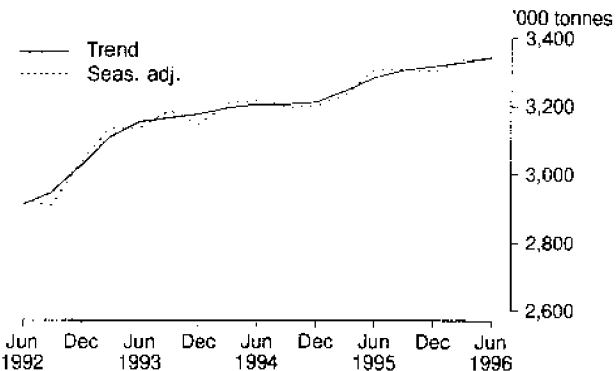
#### Q6 UNDRESSED SAWN TIMBER(g) (seasonally adjusted series average movement 3%)



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



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

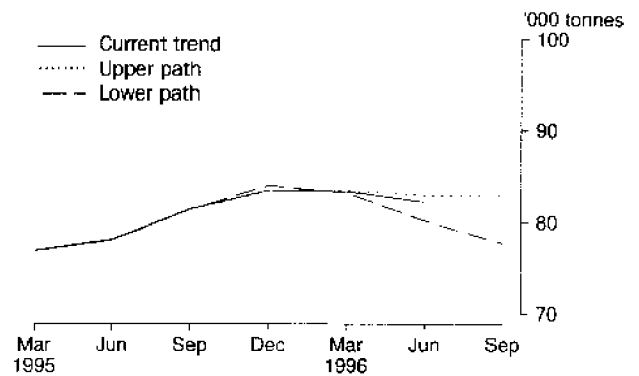
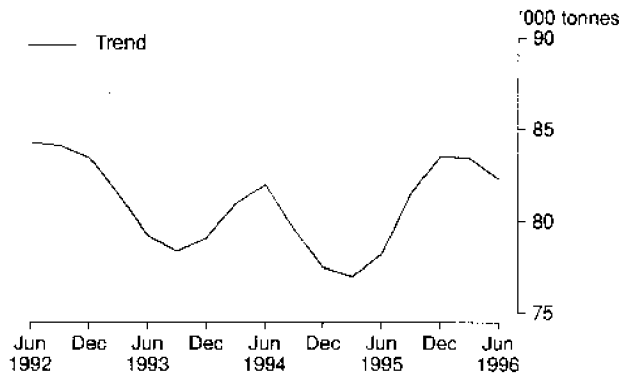


For footnotes see page 23.

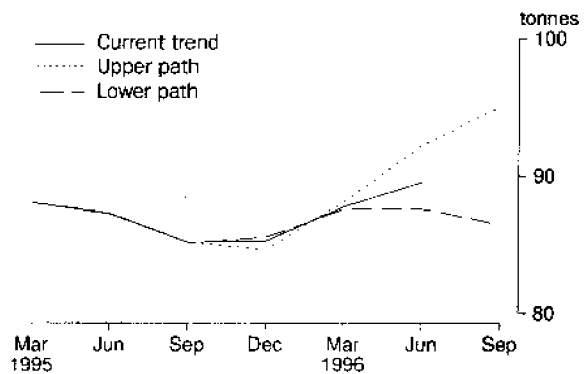
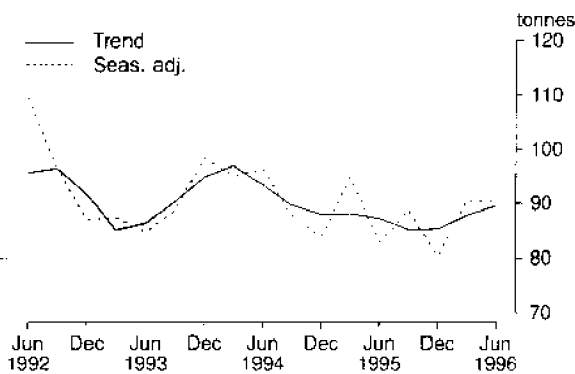
### Longer term trend (a)

### Short-term sensitivity analysis

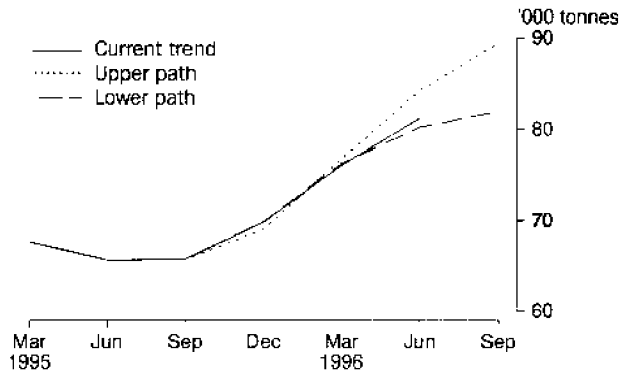
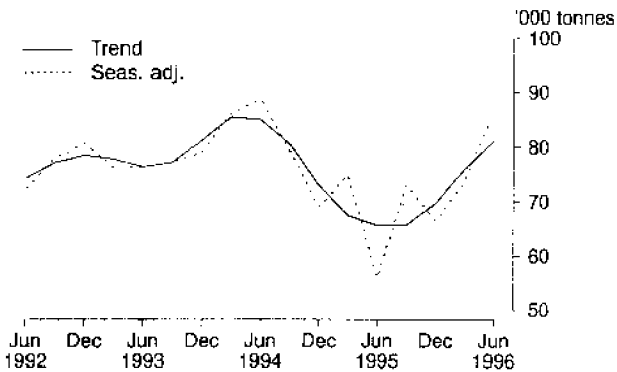
**Q9 ZINC(g)** (seasonally adjusted series average movement 6%)



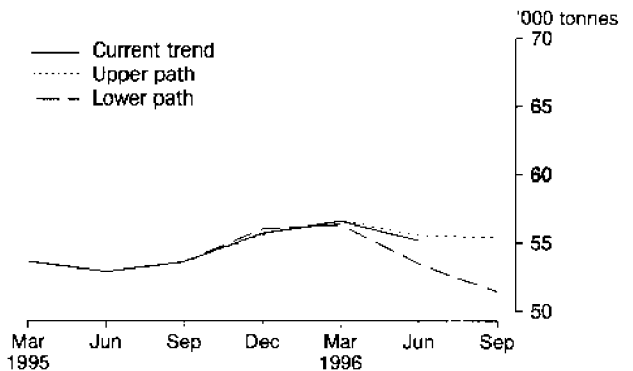
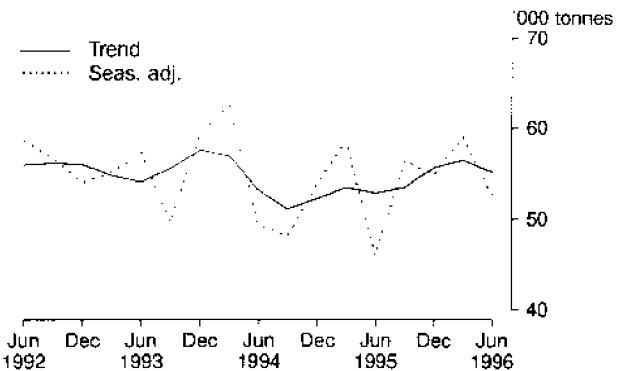
**Q10 SILVER(g)** (seasonally adjusted series average movement 9%)



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



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



For footnotes see page 23.

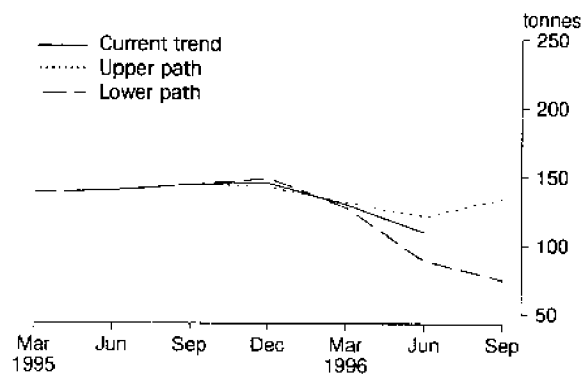
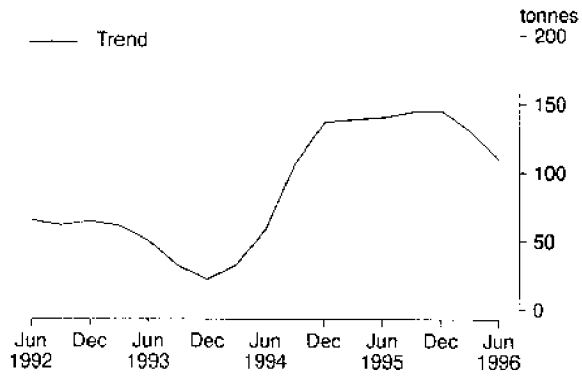
# Q

## QUARTERLY PRODUCTION *continued*

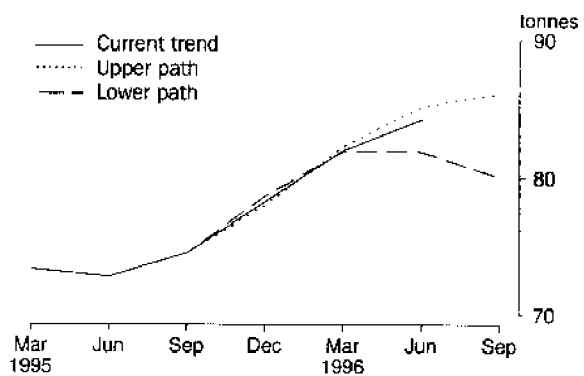
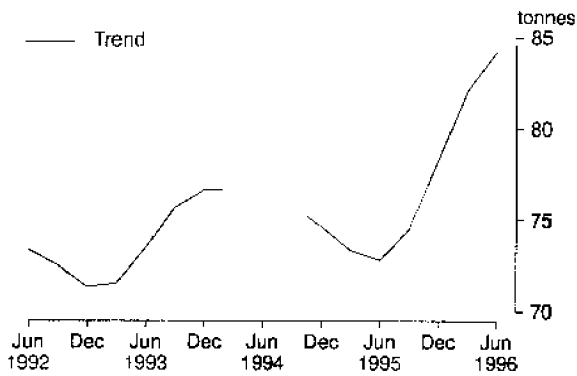
### Longer term trend (a)

### Short-term sensitivity analysis

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



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



No.	Item	Series (a)	Unit	1996										Percentage changes between latest month shown and-	
				Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	prev. month	same month prev. year	
M1	Red meat	Orig.	'000 tonnes	199	224	227	202	229	r 197	203	196	198	1.2	-12.5	
		S. adj.	r	223	224	222	211	207	206	204	193	197	2.3	-10.1	
		Trend	r	221	220	218	215	210	205	201	198	195	-1.2	-9.6	
M2	Chicken meat	Orig.	tonnes	r 39,472	38,135	r 41,647	38,388	38,071	38,189	r 40,184	37,911	41,154	8.6	4.4	
		S. adj.	r	38,616	38,965	42,266	37,483	37,996	38,624	38,037	40,951	42,059	2.7	3.9	
		Trend	r	39,362	39,405	39,199	38,900	38,740	38,901	39,322	39,906	40,473	1.4	4.6	
M3	Cheese(b)	Orig.	r	26,424	22,405	20,844	20,641	17,339	13,498	13,092	18,271	n.y.a.	39.6	-2.2	
		S. adj.	r	22,278	22,597	22,005	24,304	24,191	26,773	22,582	22,765	n.y.a.	0.8	-3.2	
		Trend	r	22,568	22,884	23,330	23,752	24,055	24,176	24,127	23,927	n.y.a.	-0.8	4.5	
M4	Butter(b)	Orig.	r	16,297	11,866	11,474	8,772	6,830	8,814	6,376	9,016	n.y.a.	41.4	37.7	
		S. adj.	r	12,564	12,145	12,243	12,623	13,034	17,611	14,576	14,455	n.y.a.	-0.8	37.5	
		Trend	r	11,894	12,306	12,742	13,329	13,994	14,596	15,064	15,416	n.y.a.	2.3	32.8	
M5	Flour of wheat or of meslin	Orig.	'000 tonnes	104	119	124	111	135	122	128	129	132	3.0	10.8	
		S. adj.	r	115	119	121	122	123	118	130	120	131	9.0	14.9	
		Trend	r	120	120	121	121	122	123	125	126	127	0.9	11.1	
M6	Prepared foods from cereals	Orig.	tonnes	8,371	8,570	10,431	7,277	8,951	7,758	7,012	8,991	8,492	-5.5	-6.0	
		S. adj.	r	8,925	8,776	9,824	7,852	8,330	7,728	7,289	9,506	8,075	-15.1	-9.1	
		Trend	r	8,624	8,620	8,581	8,463	8,304	8,157	8,115	8,156	8,202	0.6	-1.7	
M7	Biscuits	Orig.	r	6,864	11,317	12,978	9,936	12,875	12,742	12,602	r 12,817	11,984	-6.5	-14.7	
		S. adj.	r	10,868	11,172	12,011	11,692	12,007	12,400	11,855	r 11,922	10,673	-10.5	-15.0	
		Trend	r	11,589	11,544	11,653	11,827	11,955	11,968	11,857	11,674	11,443	-2.0	-5.9	
M8	Chocolate based confectionery	Orig.	r	7,558	9,264	9,186	6,499	9,395	9,302	9,852	11,148	9,962	-10.6	1.4	
		S. adj.	r	12,194	8,796	8,836	8,277	8,913	9,366	9,750	9,498	9,735	2.5	3.0	
		Trend	r	9,202	8,956	8,786	8,792	8,956	9,189	9,415	9,612	9,768	1.6	-0.6	
M9	Other confectionery	Orig.	r	3,564	5,709	6,518	4,418	6,057	6,605	6,201	6,907	6,822	-1.2	1.2	
		S. adj.	r	6,136	5,952	6,537	5,478	5,993	6,244	5,864	5,891	6,148	4.4	2.9	
		Trend	r	6,006	5,974	5,972	5,992	6,001	5,982	5,982	5,997	6,001	0.1	-3.0	
M10	Malt	Orig.	r	42,853	49,747	45,992	46,119	48,050	54,107	50,339	51,917	50,375	-3.0	13.1	
		S. adj.	r	44,957	47,713	46,229	49,036	43,886	55,918	52,208	51,032	52,030	2.0	13.1	
		Trend	r	46,019	46,279	46,976	48,045	49,311	50,498	51,483	52,213	52,795	1.1	13.5	
M11	Beer	Orig.	mil litres	133	128	147	131	146	120	129	138	133	-3.6	-7.7	
		S. adj.	r	135	135	147	142	149	150	140	143	140	-1.9	-8.5	
		Trend	r	141	140	142	144	145	145	145	143	142	-1.1	-5.5	
M12	Tobacco and cigarettes(c)	Orig.	tonnes	667	1,751	1,857	1,629	1,834	1,777	2,255	2,242	1,796	-19.9	-5.9	
		S. adj.	r	1,147	1,585	1,777	1,951	1,571	1,817	1,758	1,994	1,770	-11.3	-4.0	
		Trend	r	1,556	1,591	1,651	1,717	1,769	1,805	1,823	1,833	1,838	0.3	5.0	
M13	Man-made fibre woven fabric	Orig.	'000 sq m	7,937	13,044	12,196	9,327	14,094	11,011	12,258	13,061	12,591	-3.6	-6.9	
		S. adj.	r	11,857	12,027	11,160	10,464	12,745	10,544	11,438	12,147	12,675	4.3	-3.1	
		Trend	r	11,808	11,551	11,385	11,294	11,346	11,486	11,688	11,923	12,200	2.3	-10.2	
M14	Cotton woven fabric	Orig.	r	3,340	5,828	4,848	4,394	6,033	5,109	6,692	5,921	5,918	0.0	16.6	
		S. adj.	r	7,946	5,496	4,114	5,064	5,208	4,713	6,882	5,064	5,371	6.1	-8.5	
		Trend	r	5,925	5,599	5,305	5,148	5,153	5,273	5,435	5,580	5,684	1.9	2.5	
M15	Cotton yarn	Orig.	tonnes	1,901	3,282	3,381	2,509	3,281	3,527	3,641	3,409	3,848	12.9	20.2	
		S. adj.	r	3,095	3,248	3,034	2,886	3,071	3,011	3,398	3,020	3,848	27.4	31.0	
		Trend	r	3,056	3,043	3,028	3,025	3,059	3,125	3,224	3,339	3,467	3.8	11.3	
M16	Wool yarn	Orig.	r	1,236	1,798	1,685	1,445	1,673	1,483	1,646	1,577	1,569	-0.5	-19.8	
		S. adj.	r	1,742	1,717	1,760	1,624	1,547	1,525	1,437	1,440	1,464	1.7	-19.3	
		Trend	r	1,656	1,682	1,681	1,645	1,582	1,523	1,479	1,445	1,421	-1.7	-17.6	

For footnotes see page 23.

No.	Item	Series (a)	Unit	1996									Percentage changes between latest month shown and-	
				Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	prev. month	same month prev. year
M17	Wool woven fabric	Orig.	'000 sq m	334	702	608	412	528	536	487	449	566	26.1	-2.1
		S. adj.	"	510	600	539	419	468	604	473	421	633	50.4	3.7
		Trend	"	557	540	522	505	496	498	506	517	535	3.5	-5.1
M18	Textile floor coverings	Orig.	"	2,483	4,058	3,855	3,456	3,621	3,249	3,784	r 3,684	3,791	2.9	3.7
		S. adj.	"	3,837	3,750	3,757	3,673	3,454	3,427	3,684	r 3,345	3,650	9.1	5.0
		Trend	"	3,589	3,673	3,694	3,659	3,586	3,532	3,511	3,506	3,510	0.1	0.0
M19	Footwear	Orig.	'000 pairs	756	1,326	1,339	1,183	1,346	1,089	1,229	1,312	1,248	-4.8	-15.0
		S. adj.	"	1,358	1,225	1,211	1,189	1,230	1,194	1,195	1,193	1,146	-3.9	14.9
		Trend	"	1,265	1,245	1,230	1,217	1,206	1,196	1,189	1,181	1,173	-0.7	-11.2
M21	Newsprint	Orig.	tonnes	38,631	40,350	36,111	34,818	40,194	35,515	38,160	39,422	33,716	-14.5	2.1
		S. adj.	"	37,161	38,247	36,001	34,046	37,595	37,379	38,449	40,315	35,018	-13.1	-3.4
		Trend	"	37,261	36,832	36,569	36,573	36,897	37,345	37,705	37,877	38,006	0.3	1.7
M22	Wood pulp	Orig.	"	80,019	83,003	78,760	76,641	90,827	76,614	74,031	86,960	71,242	-18.1	-20.8
		S. adj.	"	80,078	80,930	76,902	78,495	87,927	77,345	76,196	81,487	71,744	-12.0	-16.8
		Trend	"	82,260	81,405	80,920	80,515	80,045	79,568	78,655	77,412	76,270	-1.5	-9.0
M23	Unlaminated particle board	Orig.	'000 cu m	36	73	74	68	73	67	63	62	65	5.3	-9.2
		S. adj.	"	61	73	71	68	65	68	61	58	61	5.5	-6.8
		Trend	"	68	69	69	68	67	65	63	61	59	-2.3	-9.4
M25	Paperboard containers	Orig.	'000 tonnes	86,695	90,553	91,749	84,024	88,295	81,107	99,703	94,662	95,312	0.7	1.4
		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	1,561	1,463	1,529	1,544	1,573	r 1,565	1,694	1,438	n.y.a.	-15.1	-0.6
		S. adj.	"	1,482	1,525	1,527	1,586	1,521	r 1,583	1,585	1,443	n.y.a.	-9.0	-0.6
		Trend	"	1,524	1,529	1,537	1,547	1,553	1,550	1,540	1,526	n.y.a.	-0.9	1.3
M27	Fuel oil(d)	Orig.	"	129	139	126	127	138	165	194	93	n.y.a.	-52.2	-47.9
		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	"	153	146	142	143	146	147	146	140	n.y.a.	-4.0	-28.1
M28	Aviation turbine fuel(d)	Orig.	"	452	398	414	392	378	359	443	369	n.y.a.	-16.9	-11.5
		S. adj.	"	432	400	429	422	387	390	456	366	n.y.a.	-19.7	-5.9
		Trend	"	421	421	418	413	409	405	402	400	n.y.a.	-0.6	2.2
M29	Automotive diesel oil(d)	Orig.	"	1,049	980	953	955	1,127	1,082	1,078	895	n.y.a.	-16.9	-8.4
		S. adj.	"	1,018	1,038	991	986	1,094	1,110	1,029	884	n.y.a.	-14.1	-8.5
		Trend	"	1,018	1,027	1,035	1,039	1,040	1,032	1,017	996	n.y.a.	-2.0	2.3
M30	Plastics in primary forms	Orig.	'000 tonnes	98	102	108	100	113	81	100	108	100	-7.5	-3.6
		S. adj.	"	103	105	107	100	112	88	88	107	96	-10.6	-5.3
		Trend	"	102	104	104	103	101	99	97	96	96	-0.5	-5.6
M31	Rigid PVC tubes, pipes and hoses	Orig.	tonnes	4,479	8,753	9,229	7,599	9,608	8,780	9,439	8,944	6,847	-23.4	3.6
		S. adj.	"	7,569	7,661	8,804	8,707	7,990	8,444	8,021	8,392	7,233	-13.8	3.8
		Trend	"	7,509	7,845	8,170	8,379	8,412	8,297	8,136	7,967	7,759	-2.6	10.8
M32	Polyethylene bottles up to two litres(h)	Orig. r	million	151	162	173	136	151	134	130	147	158	6.8	-0.1
		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	13,006	16,714	17,602	13,947	16,119	14,627	15,253	15,496	15,649	1.0	-2.2
		S. adj.	"	15,858	16,684	16,119	15,299	15,218	15,907	14,858	15,119	15,525	2.7	5.1
		Trend	"	15,466	15,801	15,918	15,804	15,570	15,374	15,265	15,206	15,219	0.1	4.7
M34	Superphosphates	Orig.	'000 tonnes	208	171	161	156	174	101	85	45	103	130.6	15.8
		S. adj.	"	147	124	112	130	161	145	139	111	197	78.0	23.9
		Trend	"	139	132	130	132	136	141	146	151	157	4.0	0.8

For footnotes see page 23.

No.	Item	Series (a)	Unit	1996									Percentage changes between latest month shown and-	
				Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	prev. month	same month prev. year
M35	Portland cement	Orig.	'000 tonnes	414	533	579	491	543	559	564	582	561	-3.6	-3.0
		S. adj.	"	555	548	560	533	512	542	535	529	562	6.2	-0.9
		Trend	"	529	536	541	540	536	533	535	539	543	0.7	2.5
M36	Clay bricks	Orig.	million	79	108	123	116	125	r 117	r 126	r 128	126	-1.6	-7.2
		S. adj.	"	114	109	116	118	113	r 116	r 116	r 119	125	5.6	-5.6
		Trend	"	116	114	113	114	115	116	118	119	121	1.0	-7.7
M37	Ready mixed concrete	Orig.	'000 cu m	953	1,238	1,288	1,104	1,307	1,157	1,319	1,341	1,303	-2.8	1.0
		S. adj.	"	1,203	1,247	1,242	1,184	1,173	1,193	1,229	1,234	1,312	6.3	4.6
		Trend	"	1,205	1,208	1,207	1,204	1,203	1,209	1,223	1,241	1,262	1.7	2.8
M38	Basic iron, spiegelisen & sponge iron(e)	Orig.	'000 tonnes	630	611	636	614	620	620	678	627	611	-2.6	-2.9
		S. adj.	"	632	653	639	621	619	624	663	604	598	-1.0	-2.7
		Trend	"	639	639	637	634	631	627	624	618	614	-0.7	-0.9
M39	Blooms and slabs of iron or steel(e)	Orig.	"	657	618	670	642	655	658	696	666	633	-5.0	-6.4
		S. adj.	"	650	669	679	659	664	670	694	648	611	-5.7	-6.2
		Trend	"	662	664	668	671	671	667	661	652	643	-1.4	-2.2
M40	Insulated wire	Orig.	tonnes	3,612	6,663	6,549	5,457	6,705	6,037	6,604	6,426	5,801	-9.7	-15.1
		S. adj.	"	6,104	6,390	5,827	5,734	6,035	6,310	6,216	6,191	5,264	-15.0	-15.4
		Trend	"	5,989	5,976	6,005	6,045	6,074	6,067	6,026	5,951	5,879	-1.2	-4.3
M41	Cars and station wagons	Orig.	number	13,172	26,787	26,050	22,629	30,293	25,310	30,701	25,747	28,863	12.1	7.7
		S. adj.	"	26,546	25,540	25,433	25,924	25,761	25,720	27,208	22,334	26,777	19.9	8.1
		Trend	"	25,583	25,912	26,027	25,909	25,728	25,619	25,517	25,426	25,347	-0.3	1.6
M42	Vehicles for goods and materials	Orig.	"	1,003	2,134	2,430	2,168	2,864	2,419	2,830	2,714	2,465	-9.2	20.3
		S. adj.	"	2,060	2,081	2,234	2,283	2,379	2,478	2,572	2,437	2,432	-0.2	19.0
		Trend	"	2,008	2,105	2,211	2,306	2,380	2,436	2,473	2,495	2,500	0.2	24.0
M43	Telephones	Orig.	'000	72	66	91	79	108	76	101	119	120	0.2	-11.4
		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	38,183	37,107	33,988	20,441	36,299	27,261	35,700	29,593	37,143	25.5	2.3
		S. adj.	"	36,365	33,652	31,532	24,079	33,366	32,761	38,557	31,683	40,168	26.8	1.0
		Trend	"	34,397	32,726	31,406	30,923	31,437	32,798	34,443	36,027	37,538	4.2	0.0
M45	Water heaters	Orig.	"	21,528	44,569	50,738	38,653	59,112	50,558	60,777	56,070	50,826	-9.4	-9.9
		S. adj.	"	45,655	44,125	45,588	46,632	51,014	49,603	55,091	51,111	47,702	-6.7	-7.7
		Trend	"	46,538	45,849	46,199	47,522	49,214	50,500	51,169	51,403	51,232	-0.3	-0.3
M46	Domestic clothes washing machines	Orig.	"	10,757	23,619	20,595	15,306	25,940	27,380	31,489	26,685	21,682	-18.7	-31.4
		S. adj.	"	21,370	23,204	20,537	17,435	25,089	27,200	27,587	21,813	19,629	-10.0	-28.1
		Trend	"	22,486	21,606	21,654	22,404	23,378	24,068	24,209	23,853	23,358	-2.1	-13.0
M47	Electric motors	Orig.	'000	158	282	204	185	267	213	228	254	214	-15.6	-16.0
		S. adj.	"	245	259	191	208	234	221	223	242	203	-16.0	-13.7
		Trend	"	248	239	230	222	219	221	223	223	225	0.9	-10.3
M48	Electricity	Orig.	mil k Wh	13,679	13,354	14,043	13,342	14,414	14,366	r 15,343	r 14,668	13,730	-6.4	-0.1
		S. adj.	"	13,940	13,948	14,116	14,169	13,925	13,950	r 14,101	r 13,602	13,911	2.3	0.3
		Trend	"	13,924	13,991	14,033	14,048	14,023	13,972	13,917	13,868	13,819	-0.4	-0.3
M49	Gas(f)	Orig.	terajoules	42,024	43,968	47,210	48,910	54,562	58,615	65,895	r 62,709	55,103	-12.1	1.9
		S. adj.	"	52,462	52,717	52,385	52,715	50,485	50,295	53,308	r 52,420	50,874	-3.0	1.9
		Trend	"	52,222	52,291	52,134	51,957	51,791	51,684	51,669	51,678	51,694	0.0	0.8

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	same quarter prev. year	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(g)	Orig.	'000 cu m	905	967	916	883	925	956	839	798	839	5.1	-9.3	
		S. adj.	"	886	921	924	940	907	909	849	848	824	-2.9	-9.2	
		Trend	"	897	916	928	932	918	893	866	842	821	-2.5	-10.5	
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(g)	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(g)	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(g)	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(g)	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(g)	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(g)	Orig.	tonnes	90	75	135	180	65	165	160	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.	
		Trend	"	59	106	136	138	140	144	145	130	109	-16.1	-22.0	
Q14	Gold(g)	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.	
		Trend	"	76	76	75	73	73	74	78	82	84	2.7	15.8	

(a) Trend estimates shown may have been revised. See paragraph 14 of the Explanatory Notes, on page 26.

(b) Source: Australian Dairy Corporation.

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

(d) Source: Department of Primary Industries and Energy.

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

(h) Data in this series have been revised since the data were last published in the July 1996 issue.

# 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).

### TREND REVISIONS

The example in the table below shows four illustrative scenarios and the consequent revisions to previous trend estimates of cotton woven fabric production.

- 1** The October seasonally adjusted estimate is the same as the September estimate.
- 2** The October seasonally adjusted estimate is higher than the September estimate by 10%.
- 3** The October seasonally adjusted estimate is lower than the September estimate by 10%.
- 4** The October seasonally adjusted estimate results in a revised September trend estimate which is identical to the new October trend estimate.

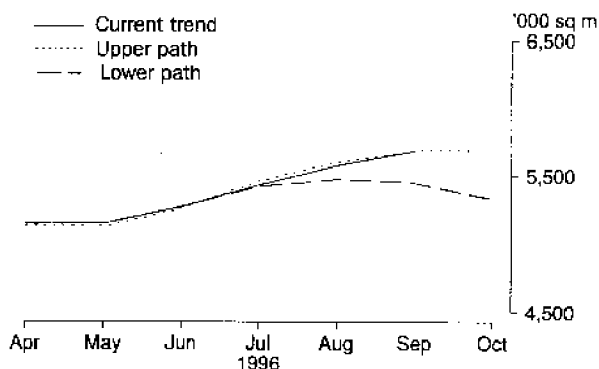
The percentage change of 10% was chosen because it represents the average absolute monthly percentage change for this series over the last thirty years.

### M14 COTTON WOVEN FABRIC TREND SERIES ('000 sq m)

		WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:			
		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
		5 371	5 894	4 848	5 809
		<i>i.e. the same as Sep 1996</i>	<i>i.e. rises by 10%</i>	<i>i.e. falls by 10%</i>	<i>i.e. same trend for Sep and Oct</i>
Trend as PUBLISHED					
1996					
July	5 435	5 448	5 471	5 424	5 467
August	5 580	5 542	5 620	5 465	5 607
September	5 684	5 569	5 715	5 423	5 691
October (new)	—	5 507	5 727	5 287	5 691

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 COTTON WOVEN FABRIC





# 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 Department of Primary Industries and Energy, 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 Australian Bureau of Agricultural and Resource Economics (ABARE) publication *Mineral Statistics* and as unpublished data.

**7** Data on the production of fuels are obtained from the Petroleum and Fisheries Division of the Department of Primary Industries and Energy, from July 1996. Previously, these data were obtained from ABARE.

**8** 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

**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.

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 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.

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

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

**15** Users may wish to refer to the ABS Information Paper *A Guide to Interpreting Time Series - Monitoring Trends, an overview* (1348.0) for more detailed information on smoothing of seasonally adjusted time series data.

RELATED PUBLICATIONS

**16** Other ABS publications which may be of interest are

- *International Trade, Australia: FASTTRACCS Service — Hardcopy Reports* (5461.0)
- *Stocks, Selected Industry Sales and Expected Sales, Australia* (5629.0) issued quarterly
- *Livestock products, Australia* (7215.0) issued monthly
- *Indexes of Industrial Production, Australia* (8125.0) issued quarterly
- *Manufacturing Industry, Australia: Preliminary* (8201.0) issued annually
- *Information Paper: Availability of Statistics Related to Manufacturing, 1996* (8205.0), released on 21 March 1996
- *Manufacturing Industry, Australia* (8221.0) issued annually
- *Manufacturing Production, Australia: Principal Commodities Produced, 1989-90* (8365.0)
- *Australian Mining Industry* (8414.0) issued annually

## EXPLANATORY NOTES *continued*

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### 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
- 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

**18** 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.

## APPENDIX : Clarification of Production Item Terms

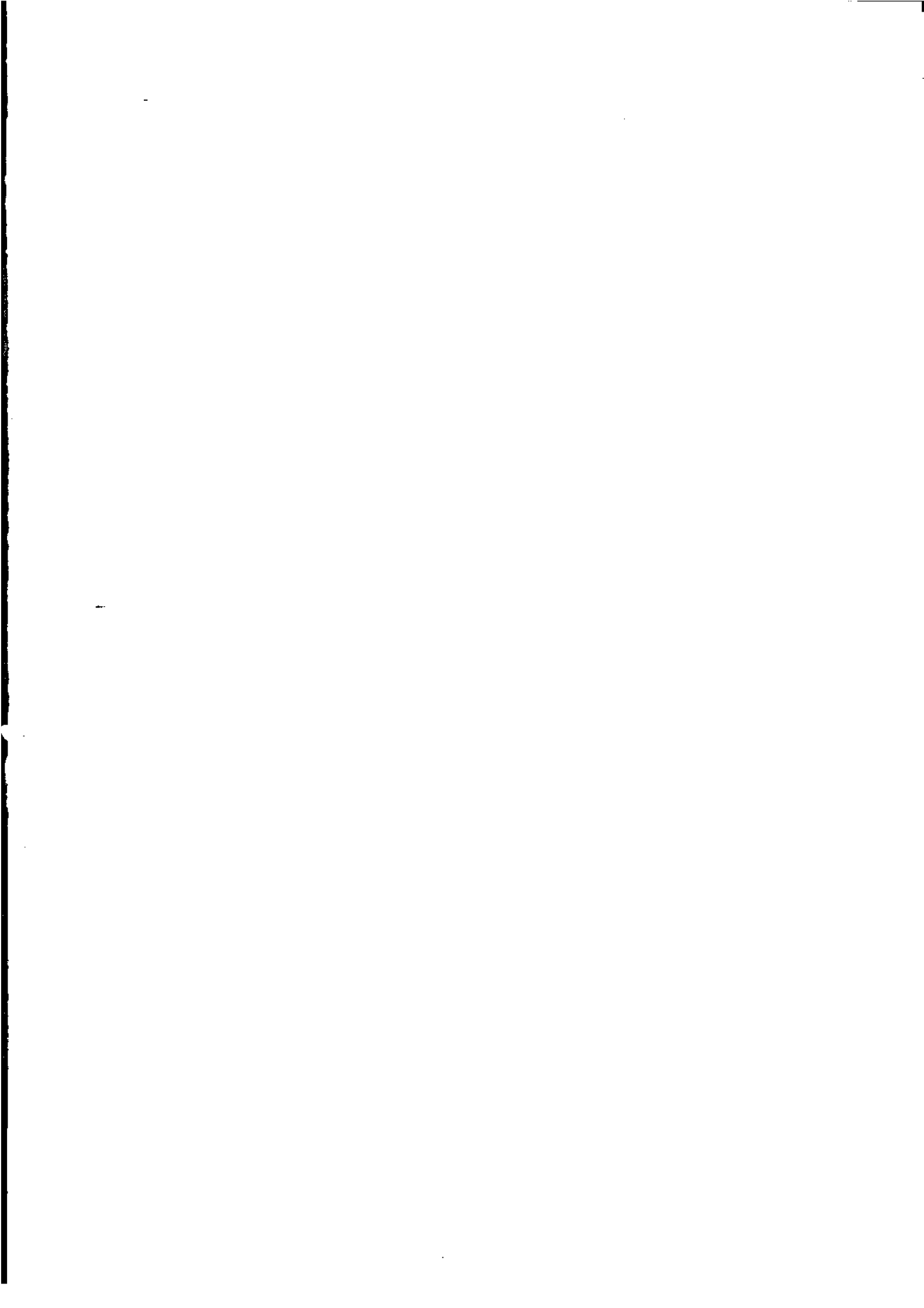
M1 Red meat	Includes veal, pork and buffalo.
M2 Chicken meat	Expressed in the dressed weight of whole birds, pieces and giblets.
M3 Cheese	Includes fresh cheeses such as ricotta, cottage, cream and quark.
M4 Butter	Includes direct butter oil.
M5 Flour of wheat or of meslin	Excludes self raising flour.
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 Production Item 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.
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 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 Production Item 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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