



November 1996

EMBARGO: 11:30 AM (CANBERRA TIME) TUES 7 JAN 1997

# Manufacturing Production

## Australia

# NOTES

## FORTHCOMING ISSUES

ISSUE	RELEASE DATE
December 1996	4 February 1997
January 1997	5 March 1997
February 1997	4 April 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.

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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.

W. McLennan  
Australian Statistician

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# KEY POINTS

## GENERAL TRENDS

Latest trends indicate that of the 58 indicators available, 18 showed rising production trends, 26 showed falling trends while 14 were relatively stable.

	INDICATORS AVAILABLE	PUBLISHED PRODUCTION TREND:		
		Rising	Falling	Stable
September 1996 issue	58	21	25	12
October 1996 issue	58	20	21	17
November 1996 issue	58	18	26	14

## SERIES TRENDS

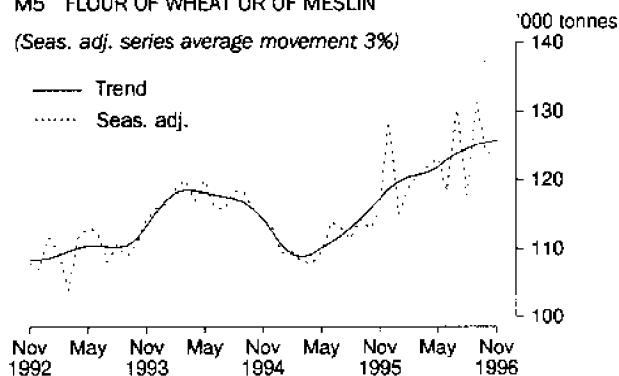
Two of the more notable trends were production of flour of wheat or of meslin and of cotton yarn.

Production of flour of wheat or of meslin was stable (rising slightly, by 0.2%), continuing the upward trend each month from April 1995. However, this trend growth will be interrupted in December 1996 if there is a fall in the seasonally adjusted series of slightly more than 0.1% (the average movement for this series is 3%).

Cotton yarn production for November 1996 was also stable (falling slightly, by 0.5%). This reversed a trend which had been rising since May 1996. The trend will still fall in December 1996 unless the seasonally adjusted series rises by more than 20% (the average movement for this series is 9%).

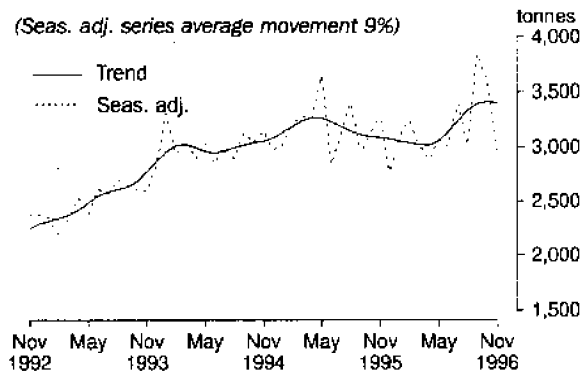
### M5 FLOUR OF WHEAT OR OF MESLIN

(Seas. adj. series average movement 3%)



### M15 COTTON YARN

(Seas. adj. series average movement 9%)

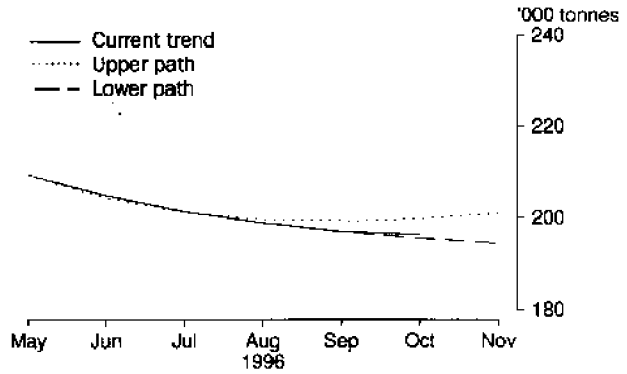
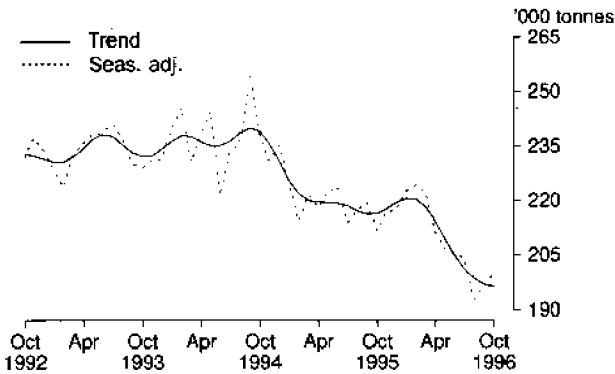


# M MONTHLY PRODUCTION

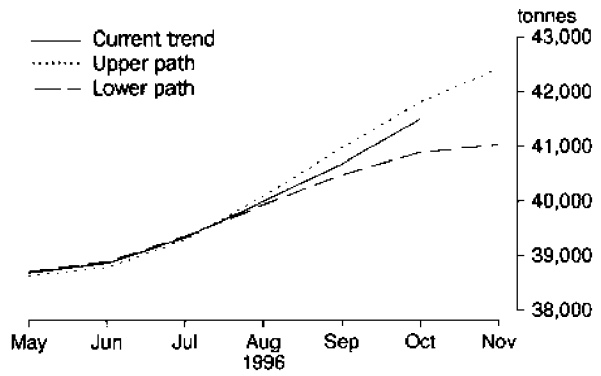
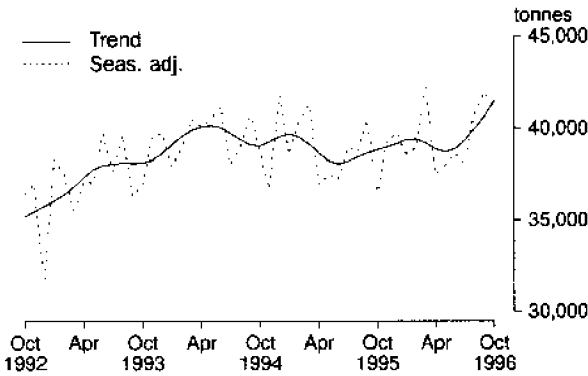
## Longer term trend(a)

## Short-term sensitivity analysis

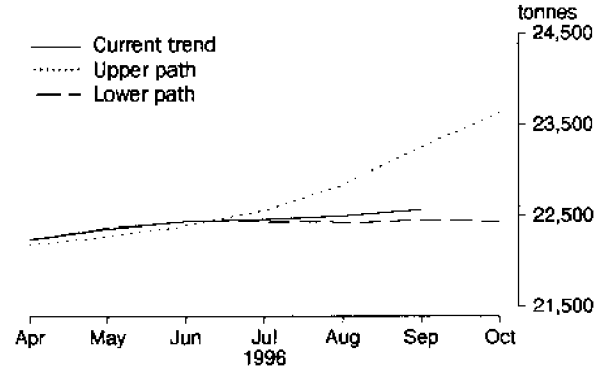
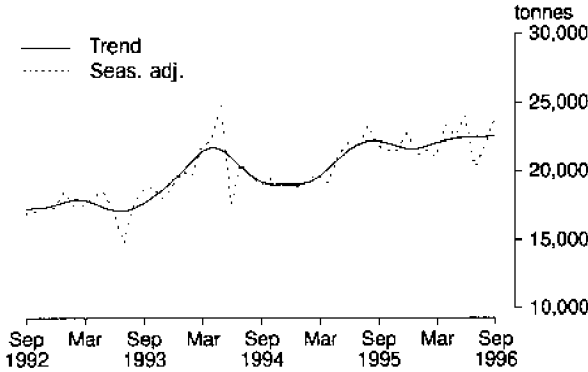
### M1 RED MEAT (seasonally adjusted series average movement 4%)



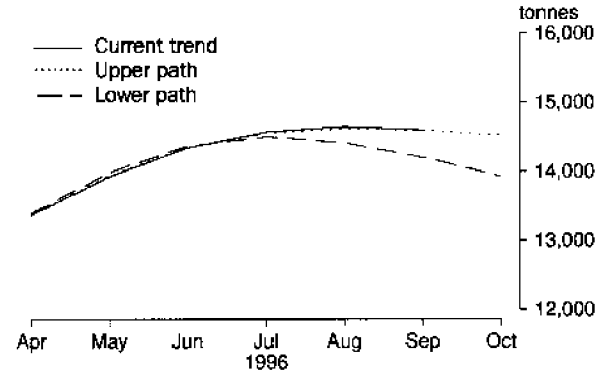
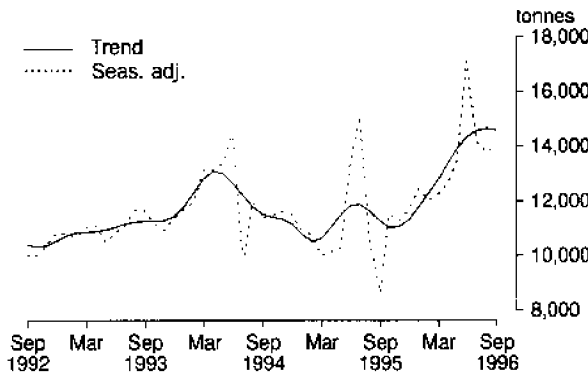
### M2 CHICKEN MEAT (seasonally adjusted series average movement 4%)



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



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

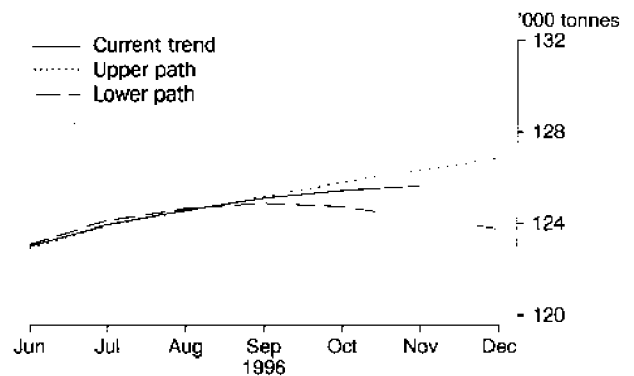
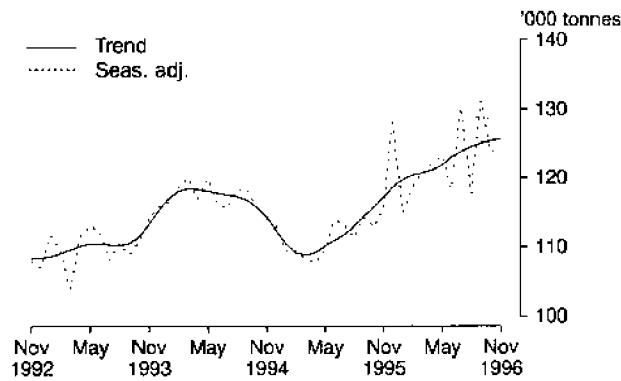


For footnotes see page 23.

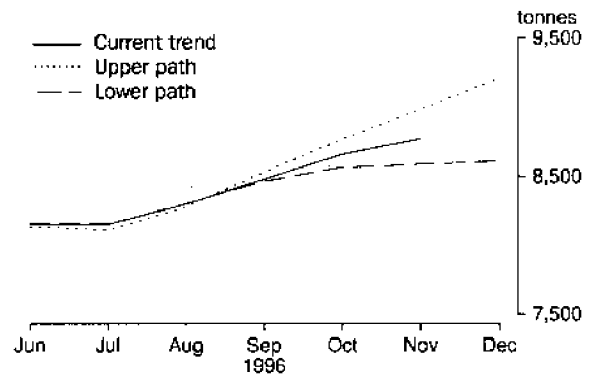
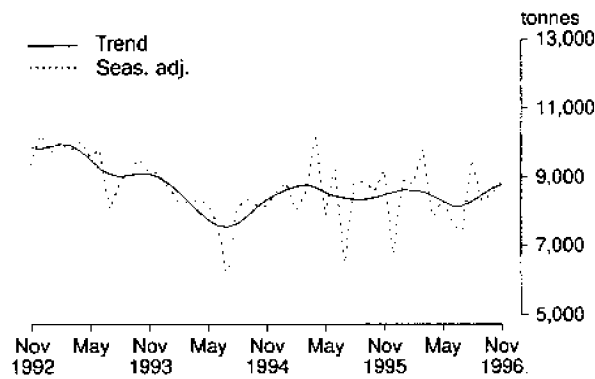
Longer term trend (a)

Short-term sensitivity analysis

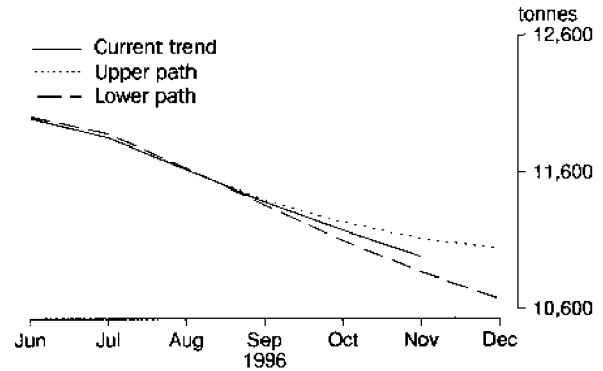
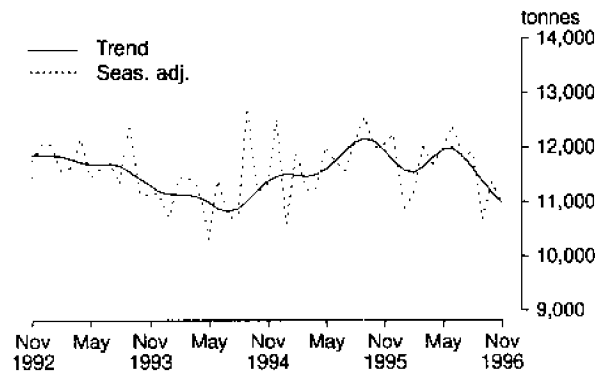
**M5 FLOUR OF WHEAT OR OF MESLIN** (seasonally adjusted series average movement 3%)



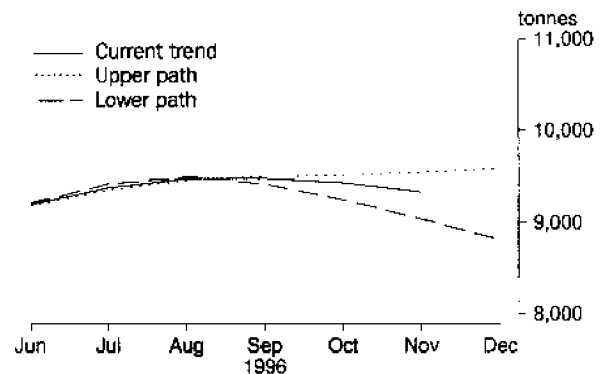
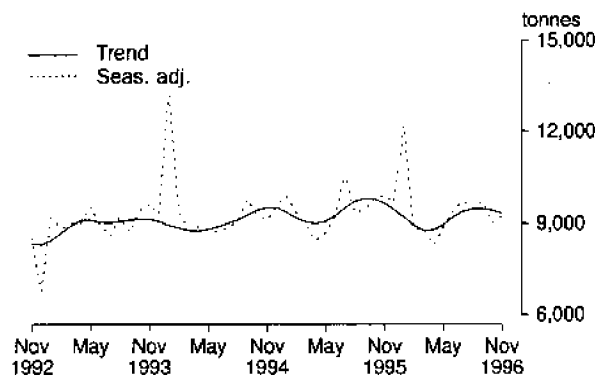
**M6 PREPARED FOODS FROM CEREALS** (seasonally adjusted series average movement 8%)



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



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



For footnotes see page 23.

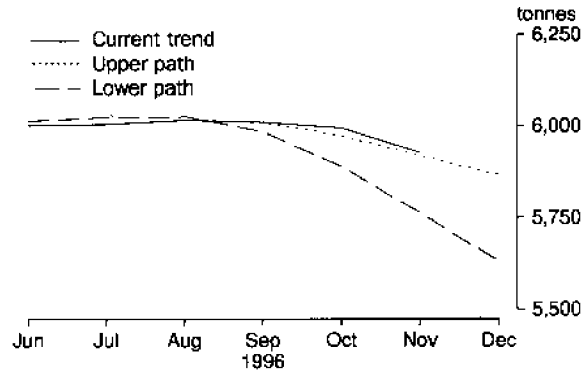
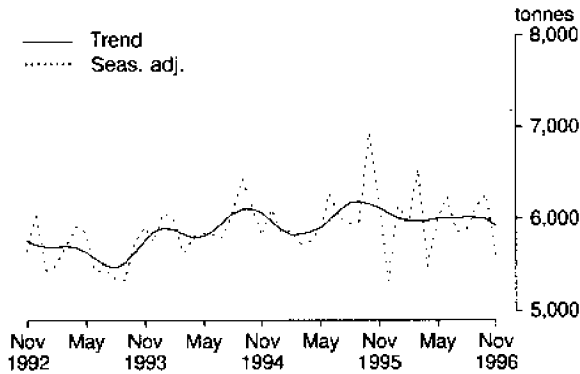
# M

## MONTHLY PRODUCTION *continued*

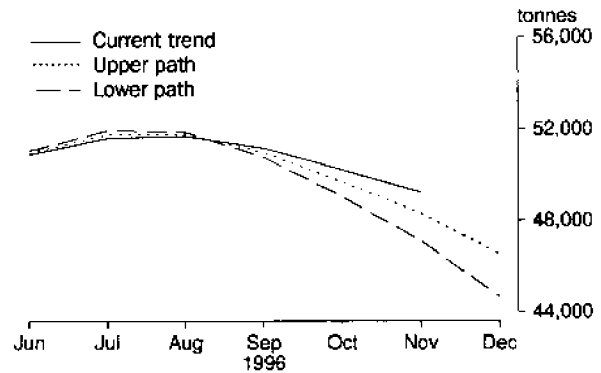
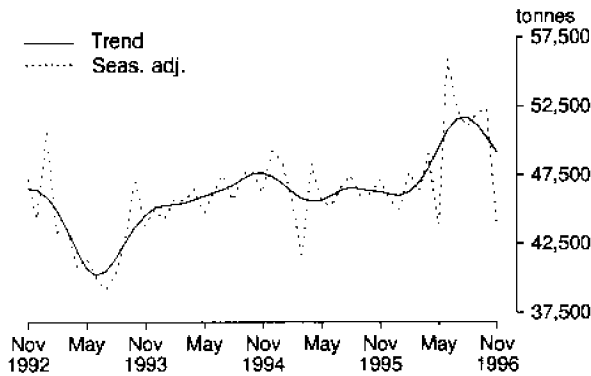
Longer term trend (a)

Short-term sensitivity analysis

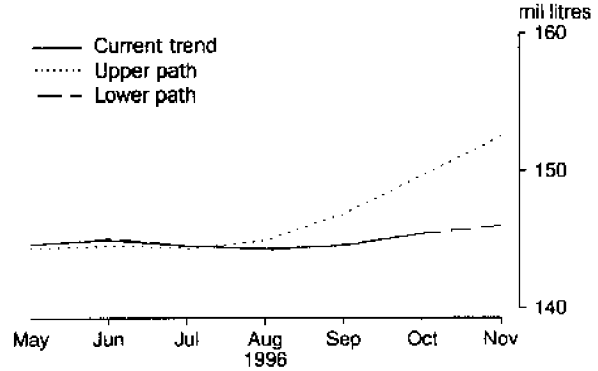
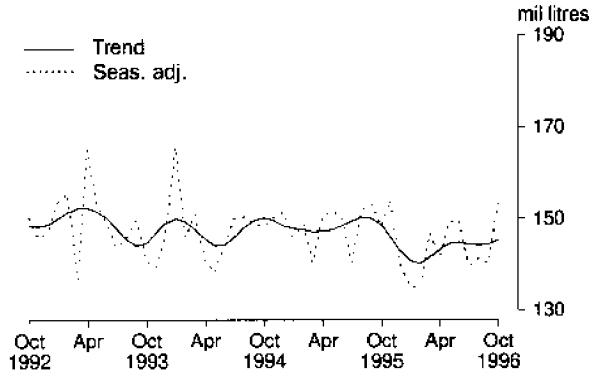
### M9 OTHER CONFECTIONERY (seasonally adjusted series average movement 5%)



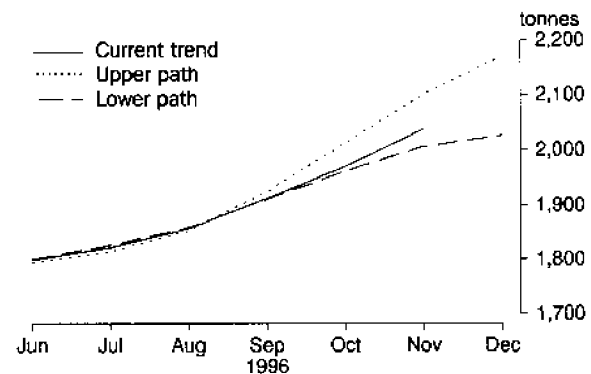
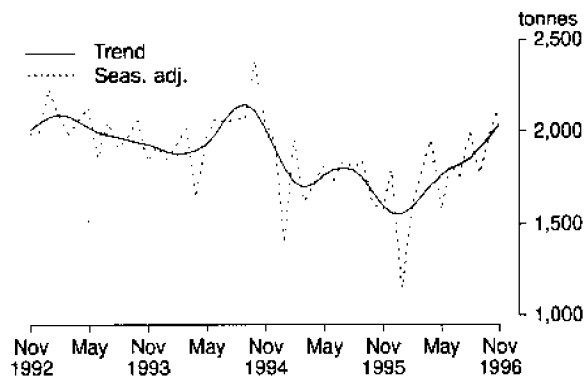
### M10 MALT (seasonally adjusted series average movement 5%)



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



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

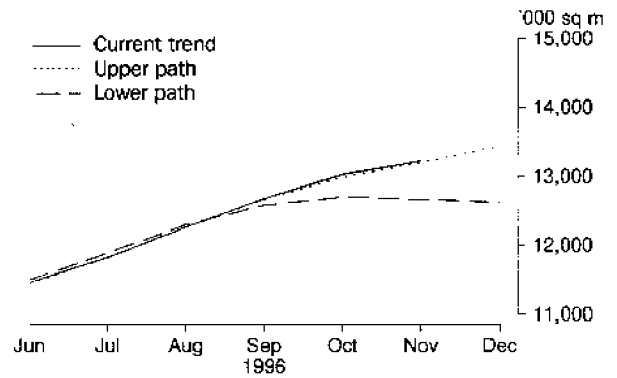
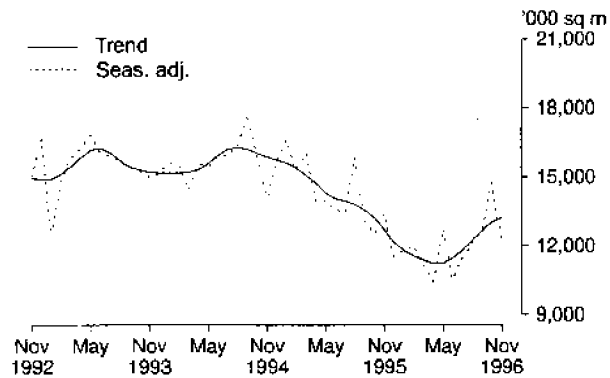


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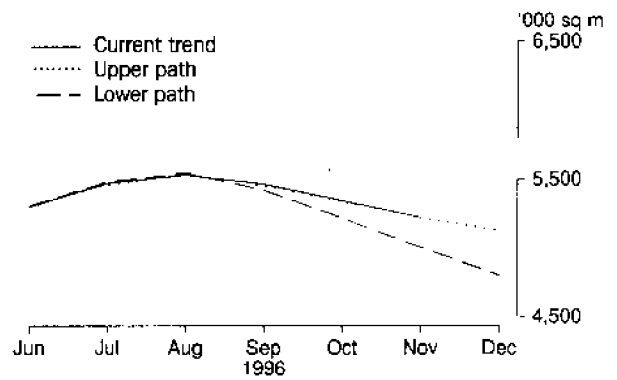
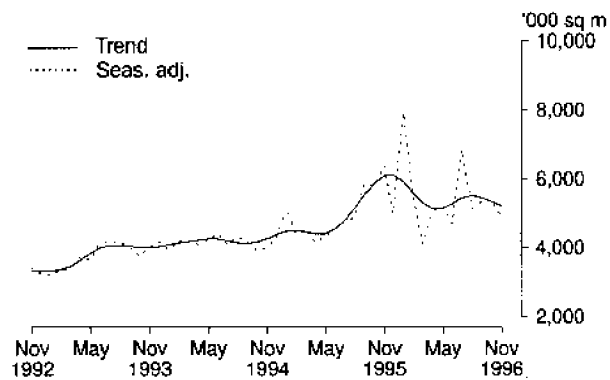
Longer term trend (a)

Short-term sensitivity analysis

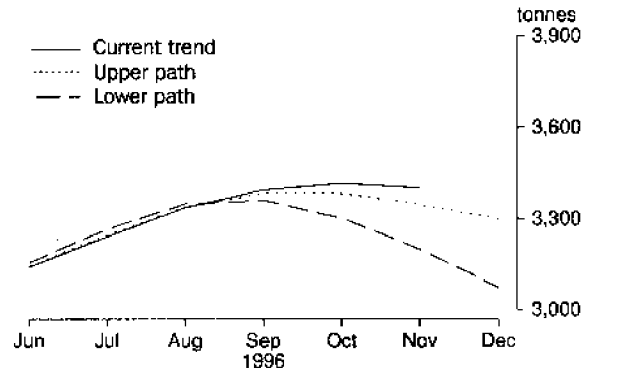
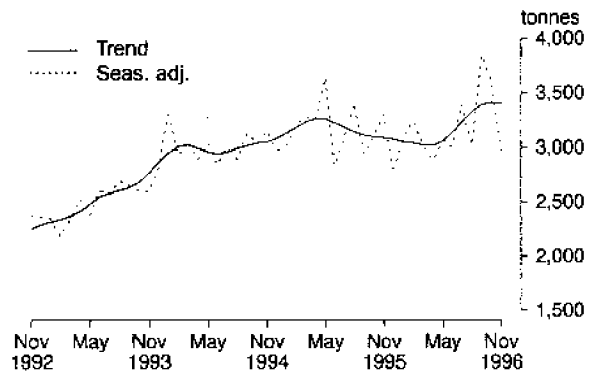
**M13 MAN-MADE FIBRE WOVEN FABRIC** (seasonally adjusted series average movement 8%)



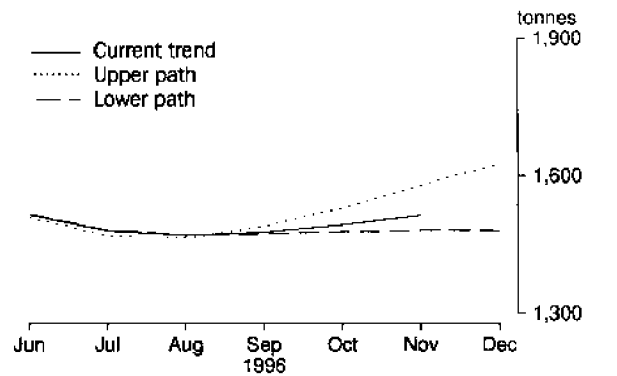
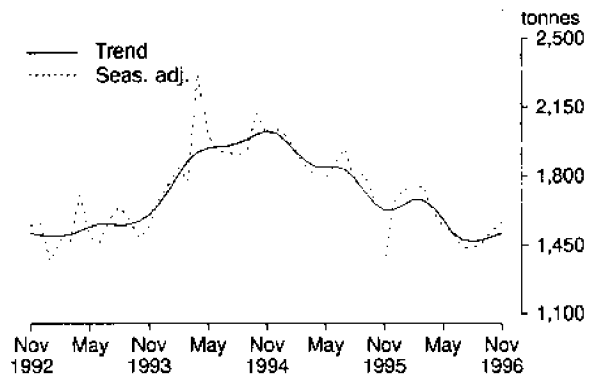
**M14 COTTON WOVEN FABRIC** (seasonally adjusted series average movement 9%)



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



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



For footnotes see page 23.



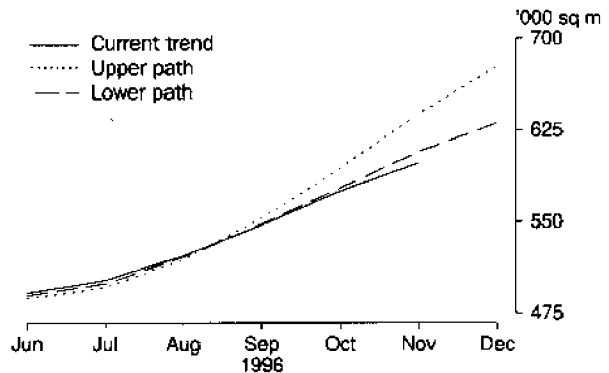
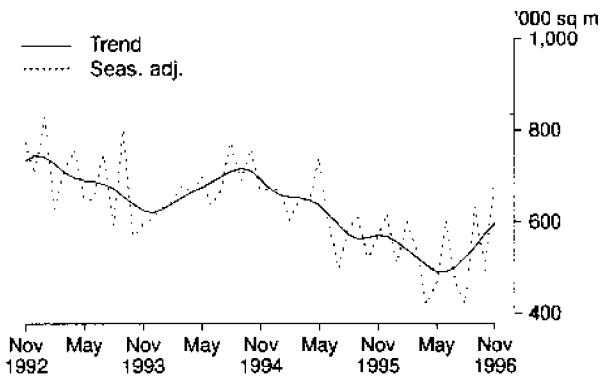
# M

## MONTHLY PRODUCTION *continued*

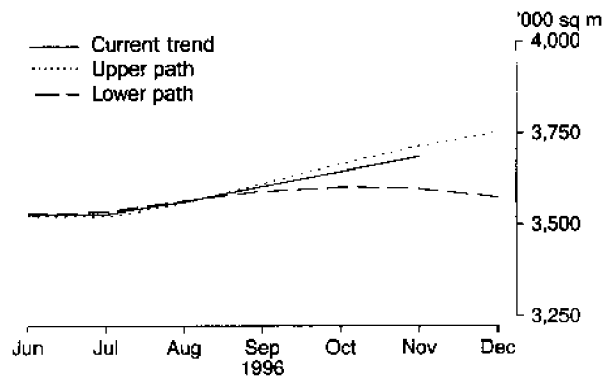
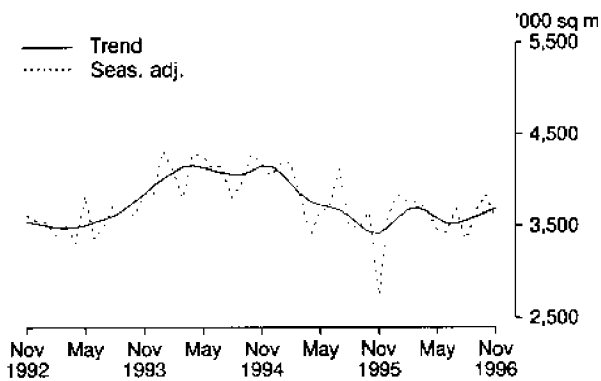
### Longer term trend(a)

### Short-term sensitivity analysis

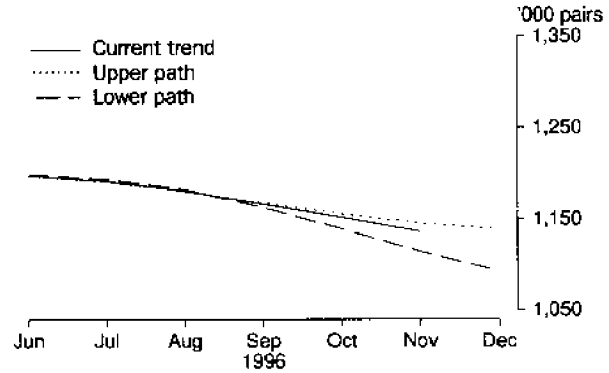
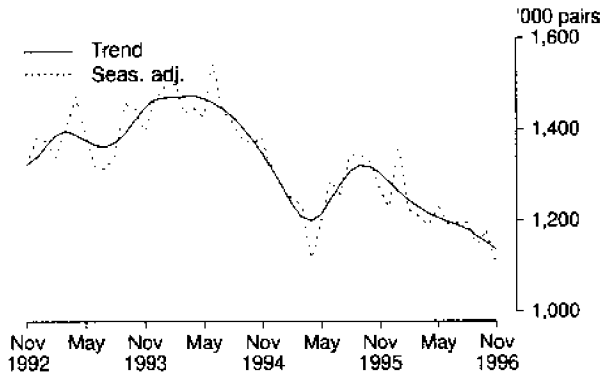
#### M17 WOOL WOVEN FABRIC (seasonally adjusted series average movement 8%)



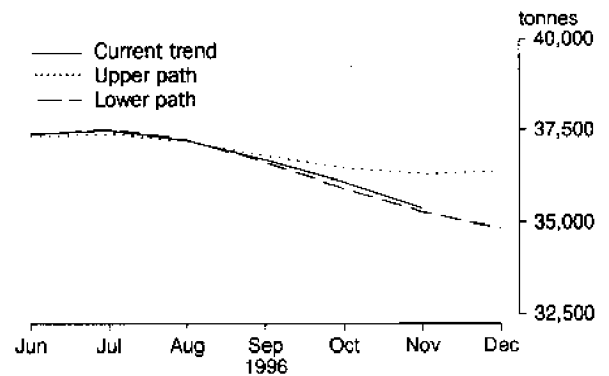
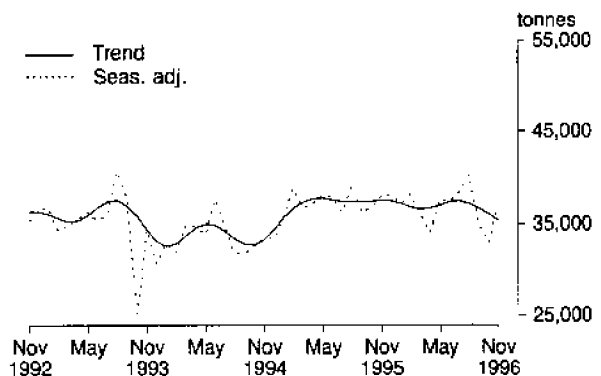
#### M18 TEXTILE FLOOR COVERINGS (seasonally adjusted series average movement 6%)



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



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



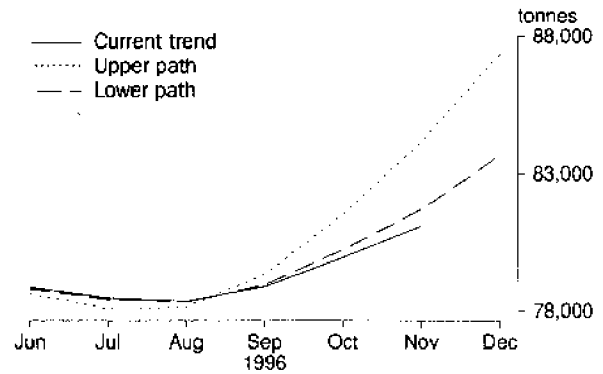
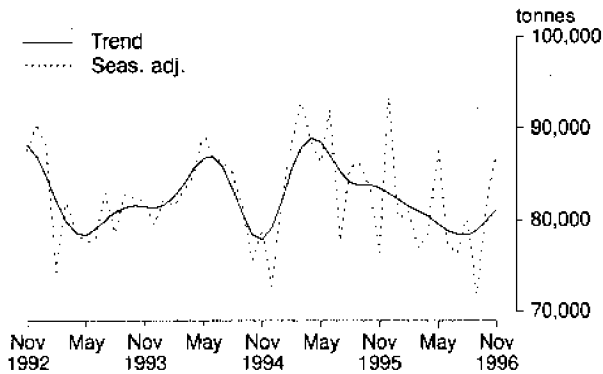
For footnotes see page 23.

# M

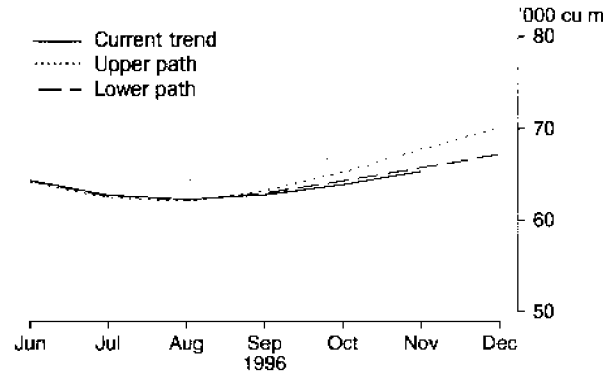
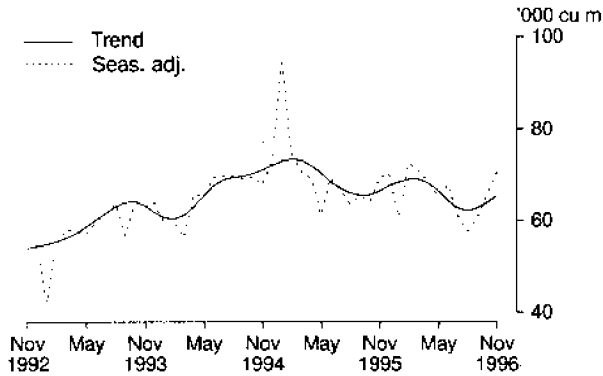
Longer term trend (a)

Short-term sensitivity analysis

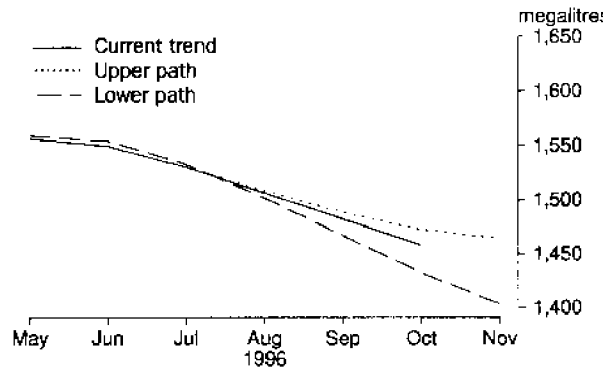
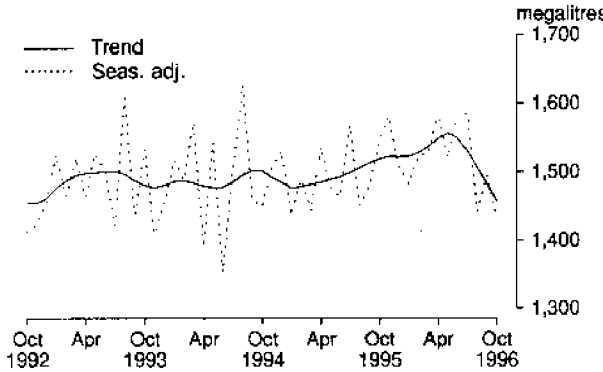
**M22 WOOD PULP** (seasonally adjusted series average movement 4%)



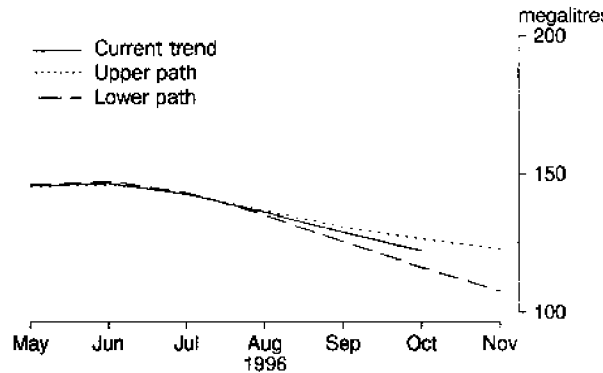
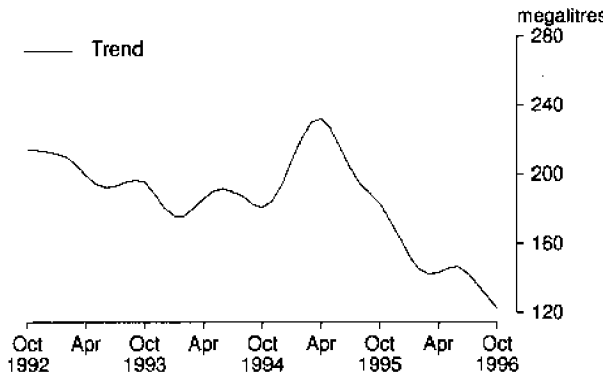
**M23 UNLAMINATED PARTICLE BOARD** (seasonally adjusted series average movement 5%)



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



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

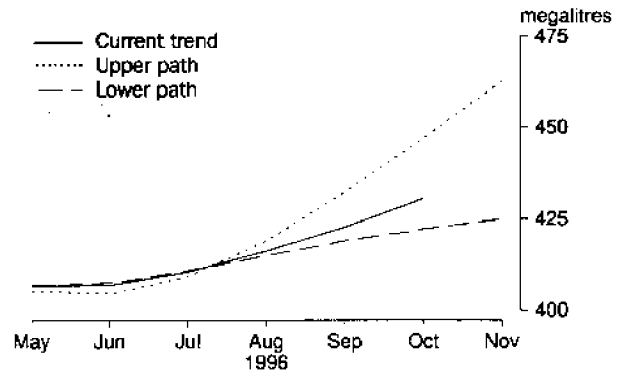
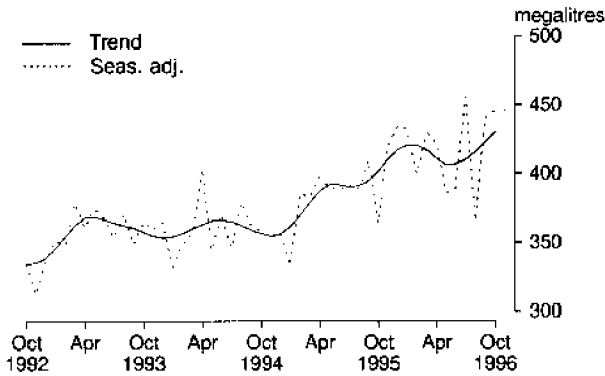


For footnotes see page 23.

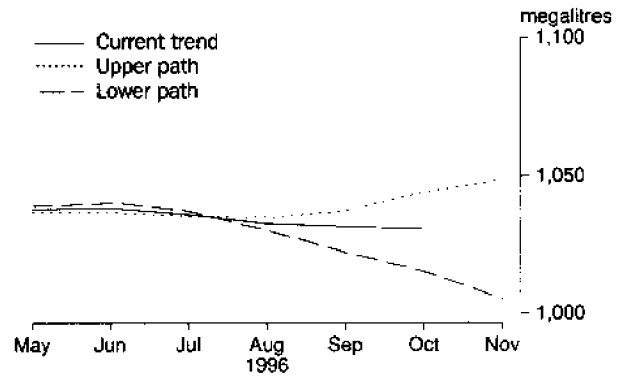
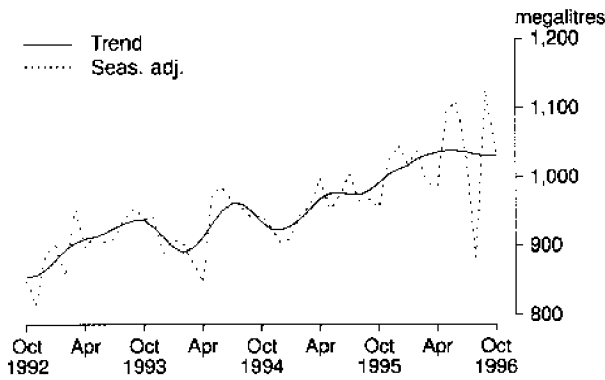
Longer term trend (a)

Short-term sensitivity analysis

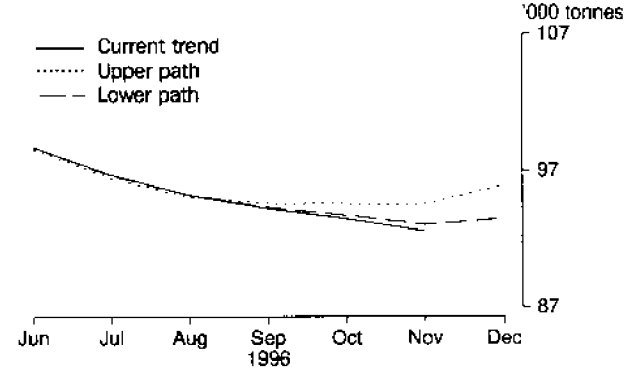
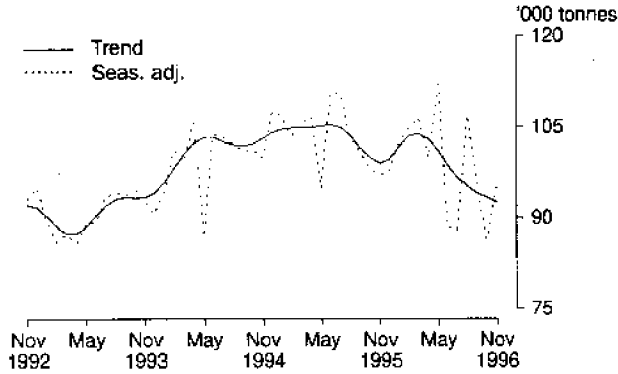
**M28 AVIATION TURBINE FUEL(d)** (seasonally adjusted series average movement 9%)



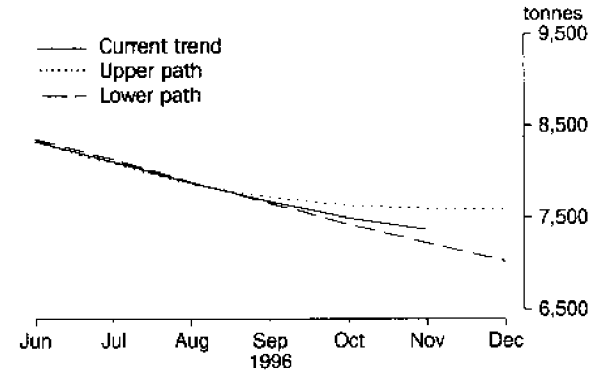
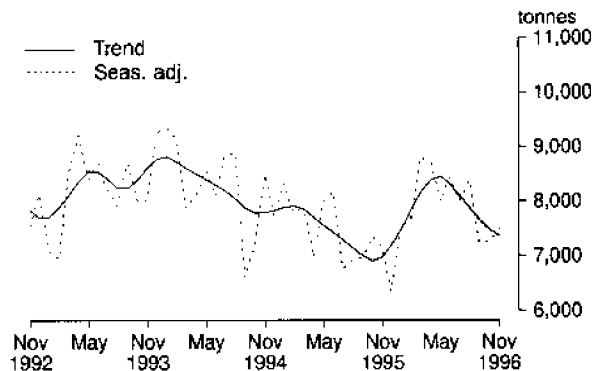
**M29 AUTOMOTIVE DIESEL OIL(d)** (seasonally adjusted series average movement 5%)



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



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

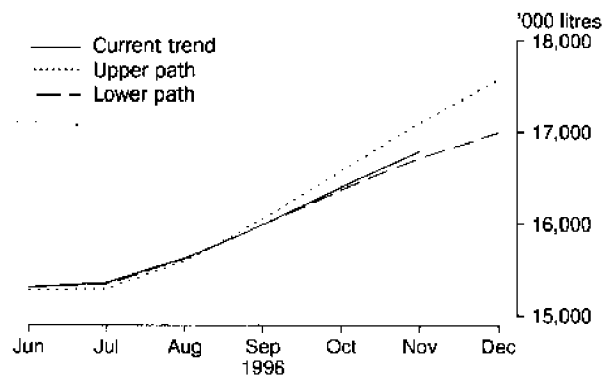
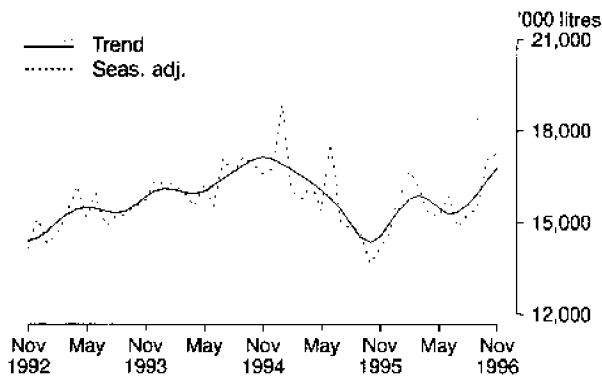


For footnotes see page 23.

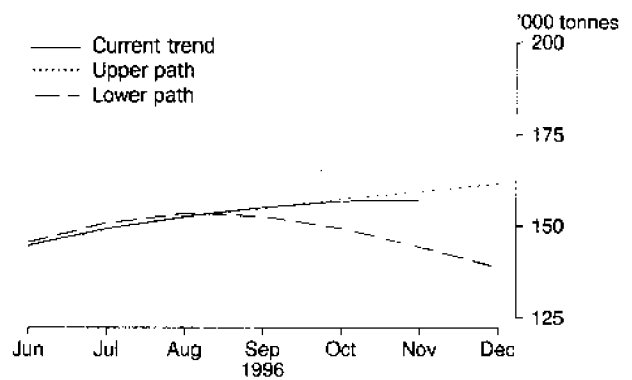
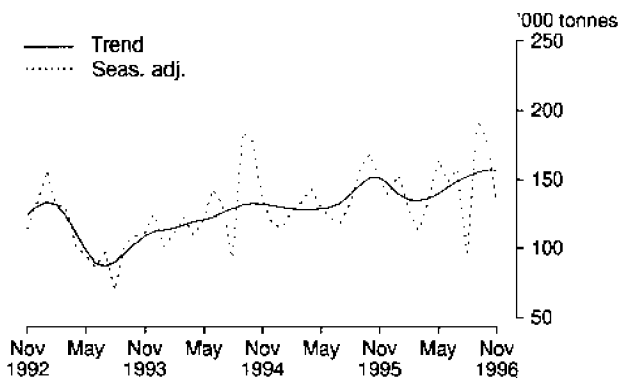
## Longer term trend (a)

## Short-term sensitivity analysis

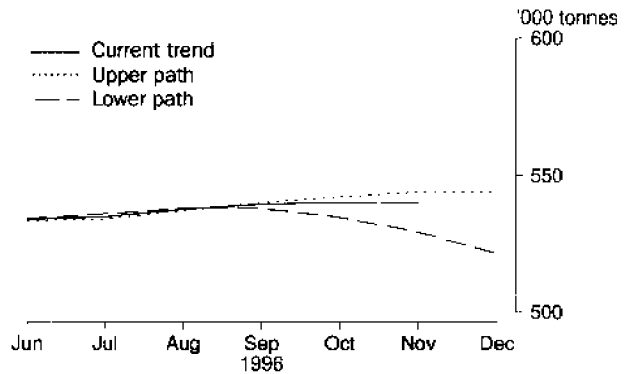
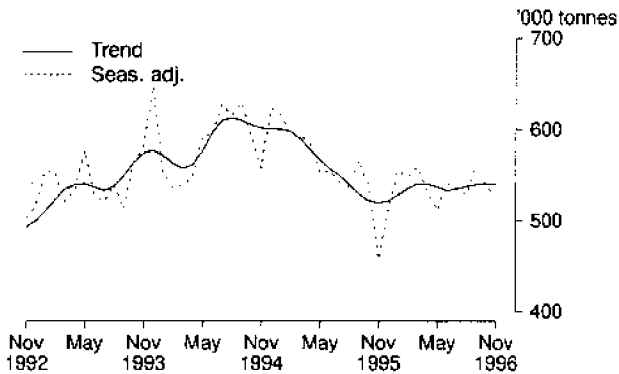
### M33 PAINT (seasonally adjusted series average movement 4%)



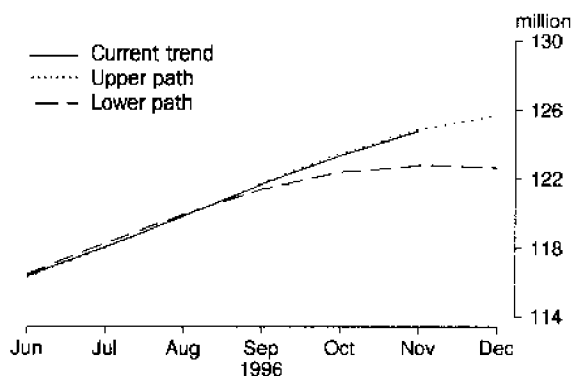
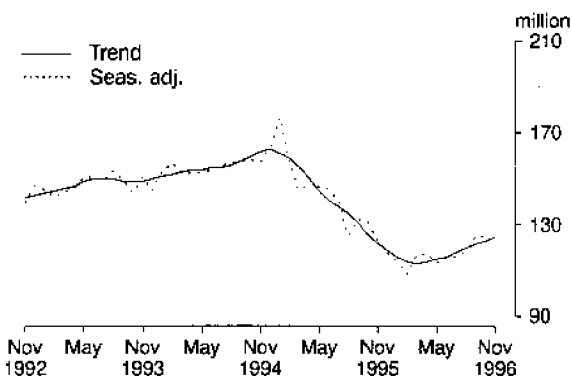
### M34 SUPERPHOSPHATES (seasonally adjusted series average movement 15%)



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



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



For footnotes see page 23.

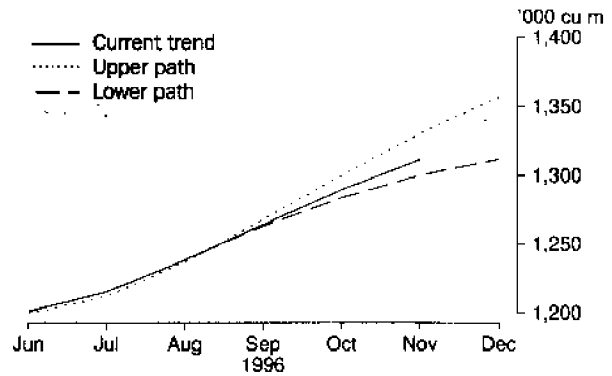
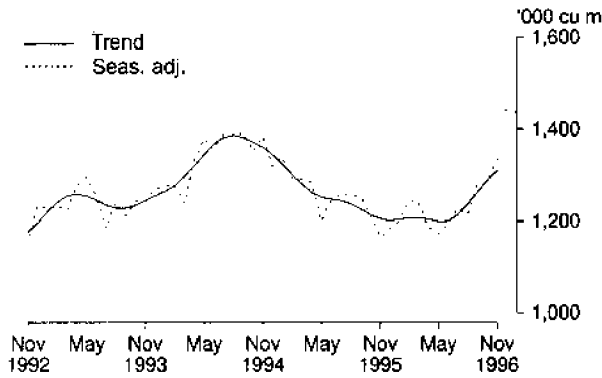
# M

## MONTHLY PRODUCTION *continued*

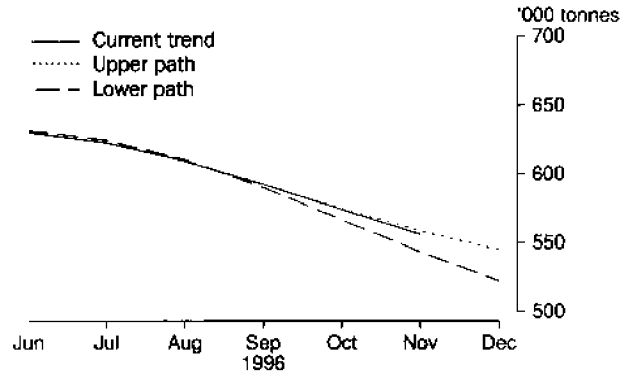
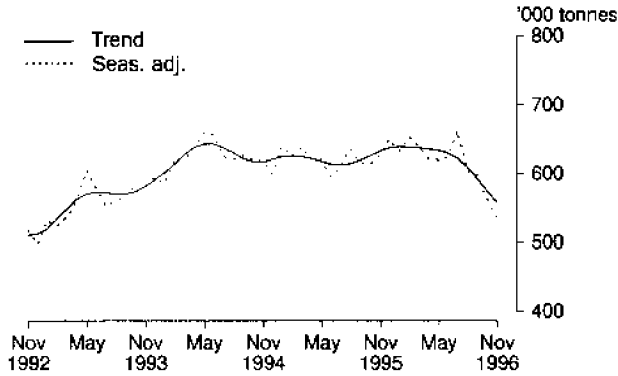
### Longer term trend (a)

### Short-term sensitivity analysis

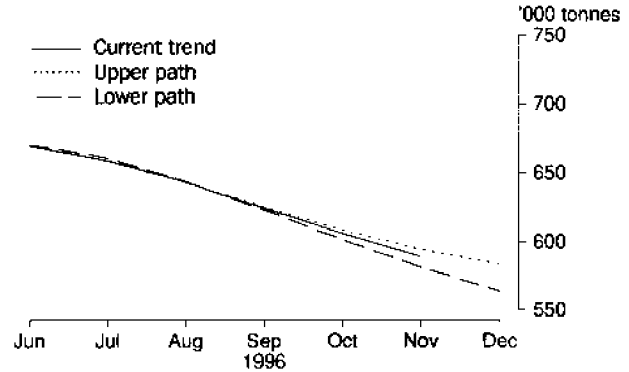
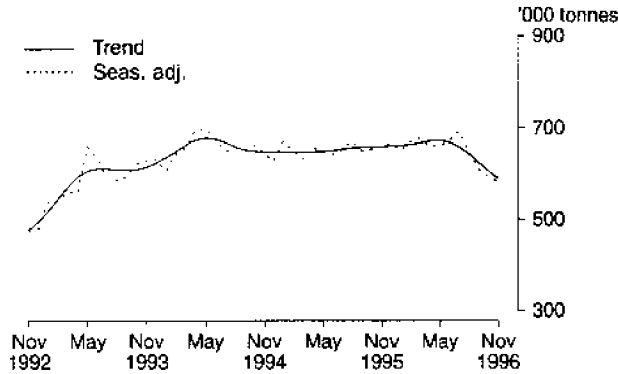
#### M37 READY MIXED CONCRETE (seasonally adjusted series average movement 4%)



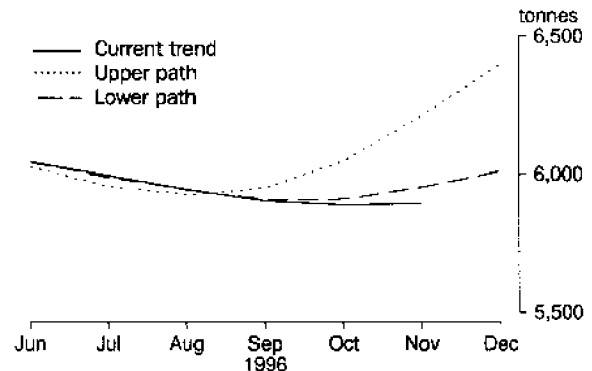
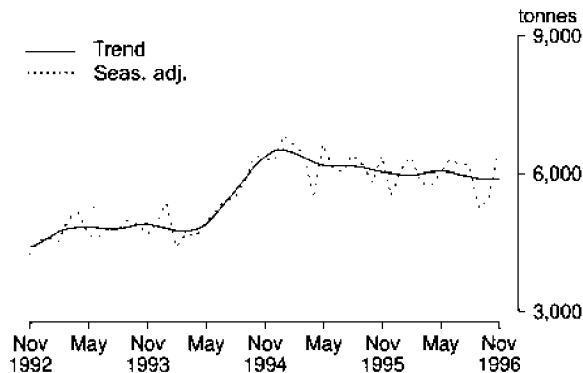
#### M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(e) (seasonally adjusted series average movement 5%)



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



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

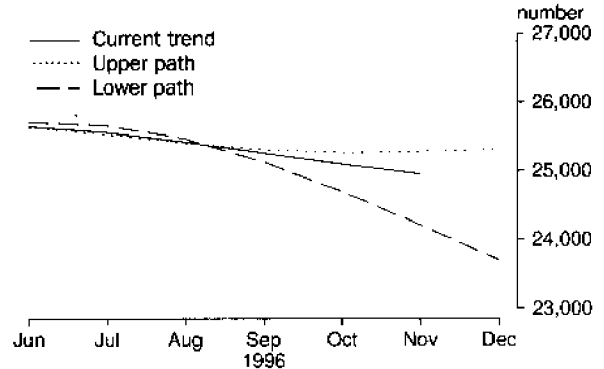
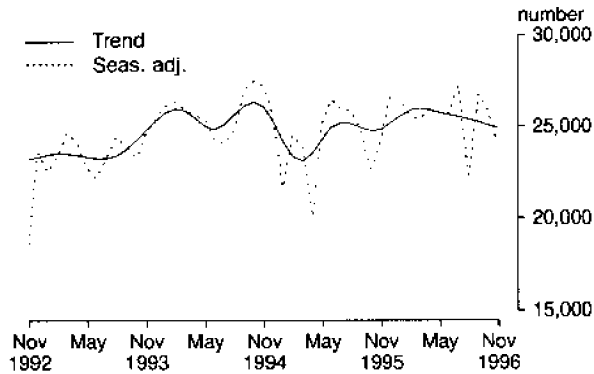


For footnotes see page 23.

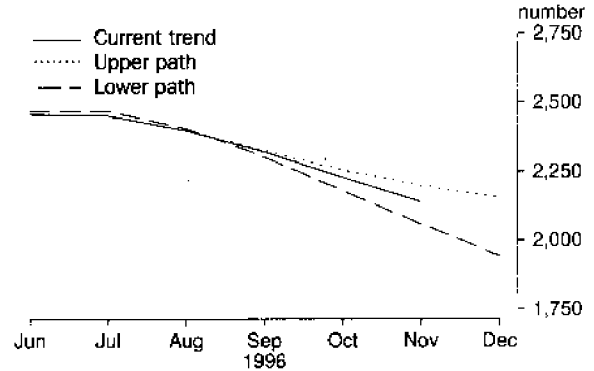
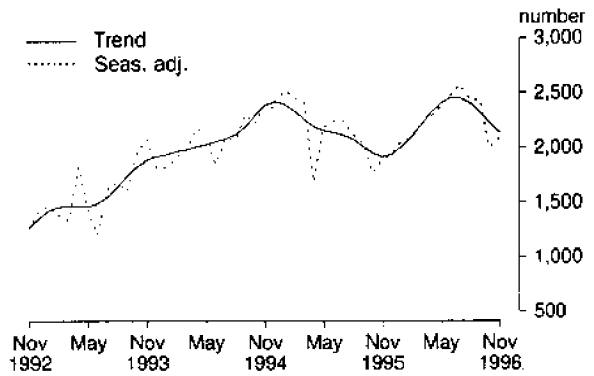
Longer term trend (a)

Short-term sensitivity analysis

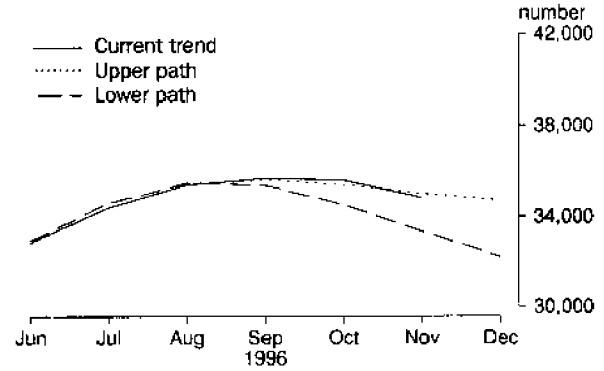
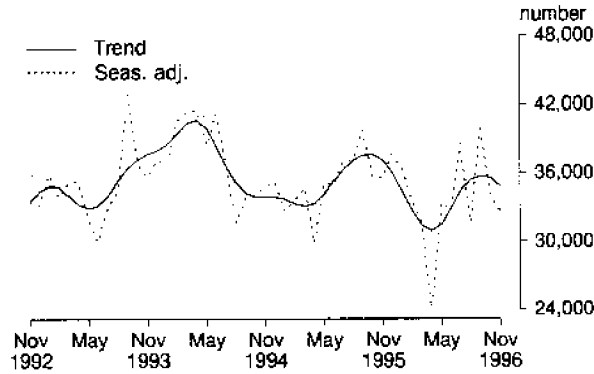
**M41 CARS AND STATION WAGONS** (seasonally adjusted series average movement 8%)



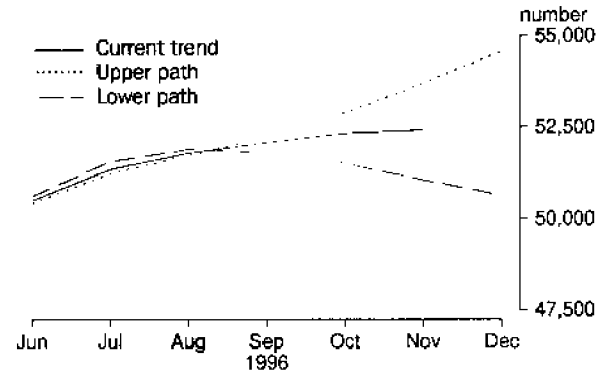
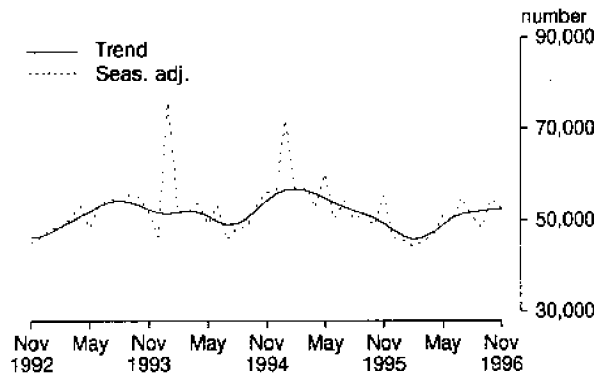
**M42 VEHICLES FOR GOODS AND MATERIALS** (seasonally adjusted series average movement 11%)



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



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



For footnotes see page 23.

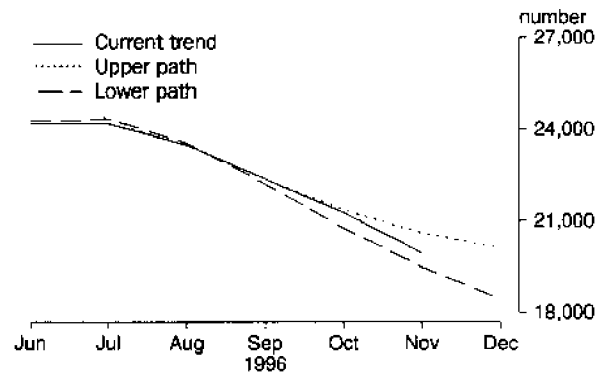
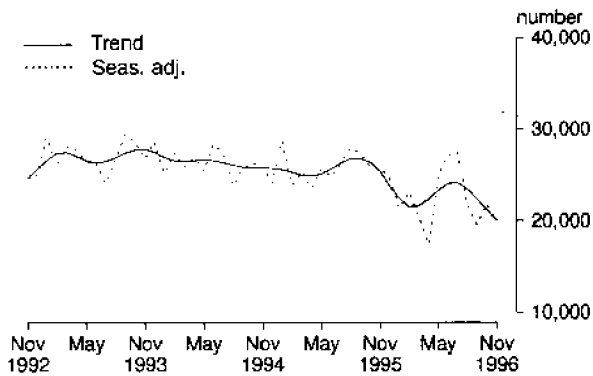
# M

## MONTHLY PRODUCTION *continued*

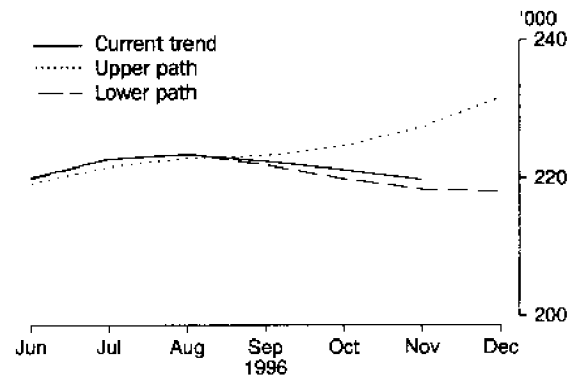
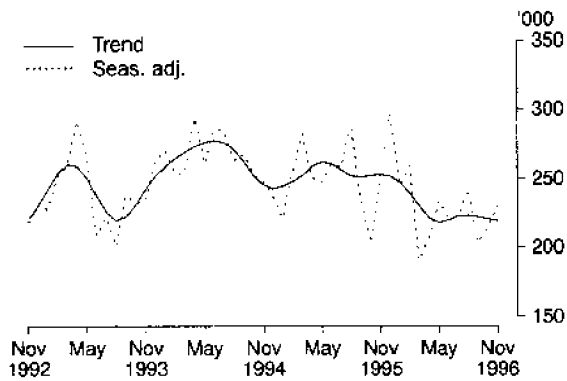
Longer term trend(a)

Short-term sensitivity analysis

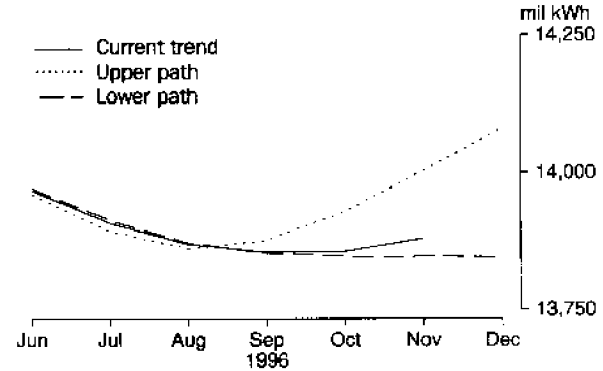
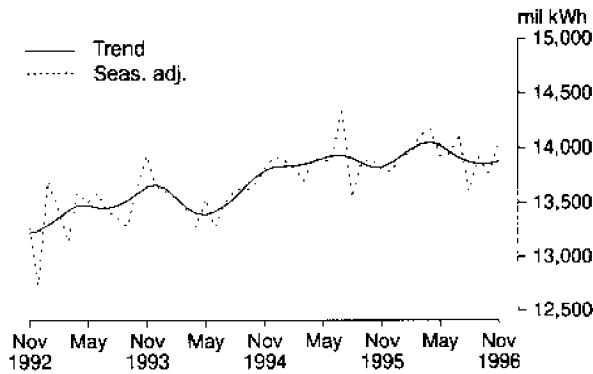
### M46 DOMESTIC CLOTHES WASHING MACHINES (seasonally adjusted series average movement 9%)



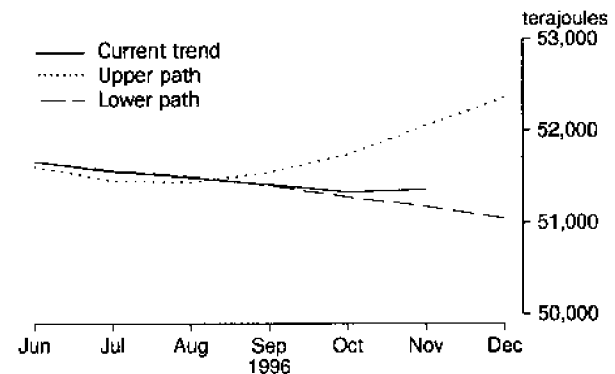
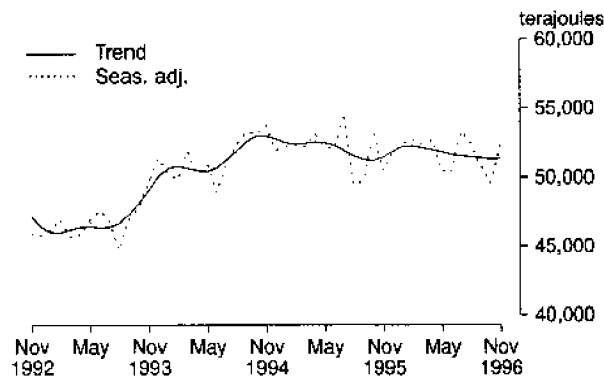
### M47 ELECTRIC MOTORS (seasonally adjusted series average movement 7%)



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



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



For footnotes see page 23.

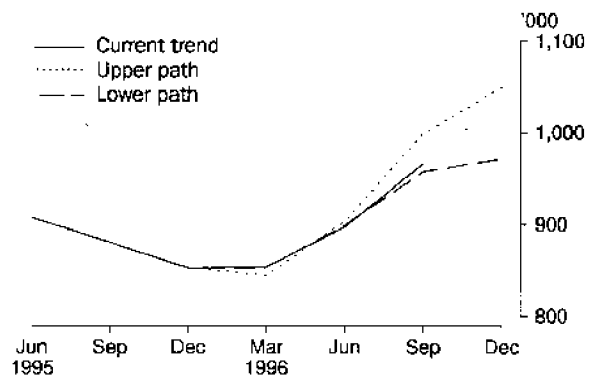
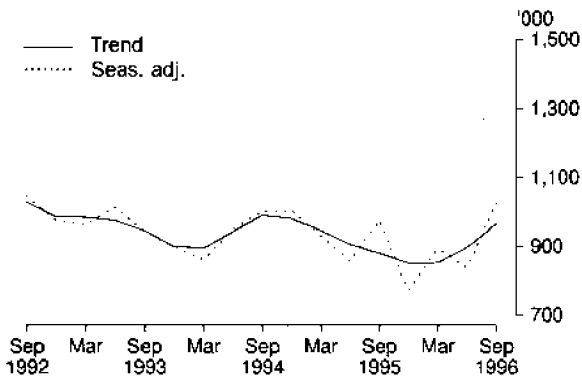
# Q

## QUARTERLY PRODUCTION

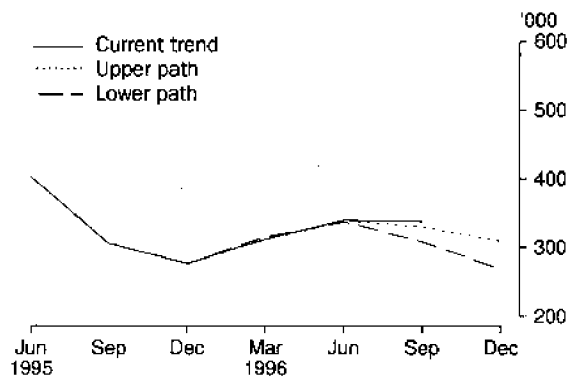
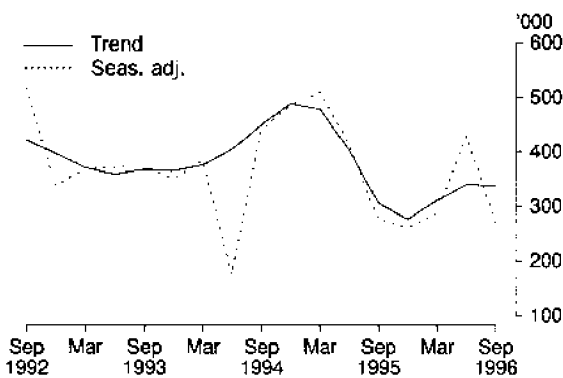
Longer term trend (a)

Short-term sensitivity analysis

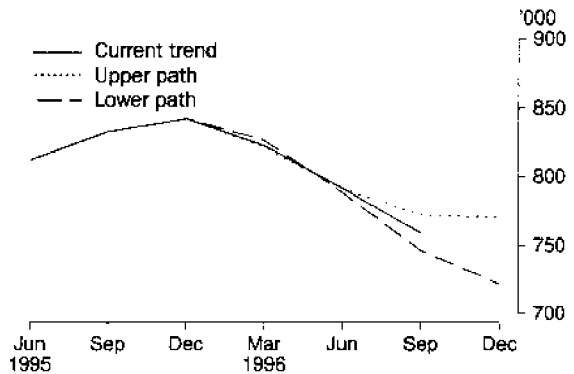
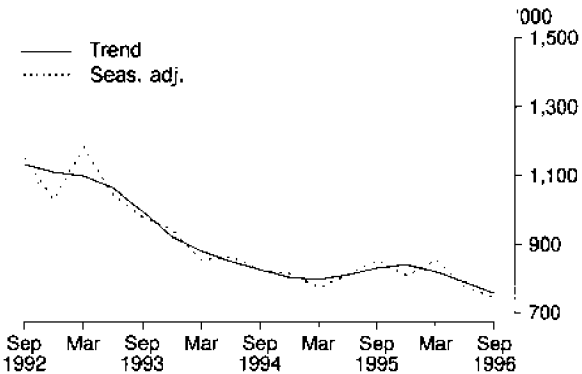
### Q1 MEN'S AND BOYS' LONG TROUSERS (seasonally adjusted series average movement 7%)



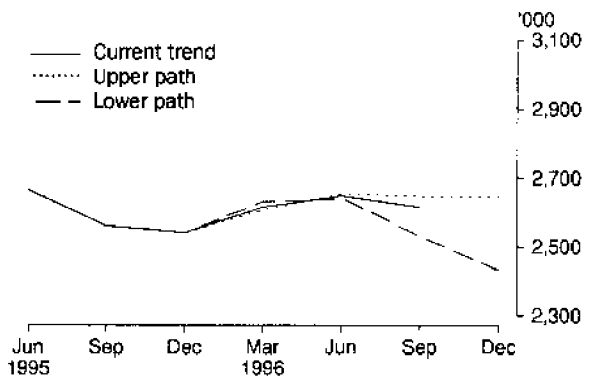
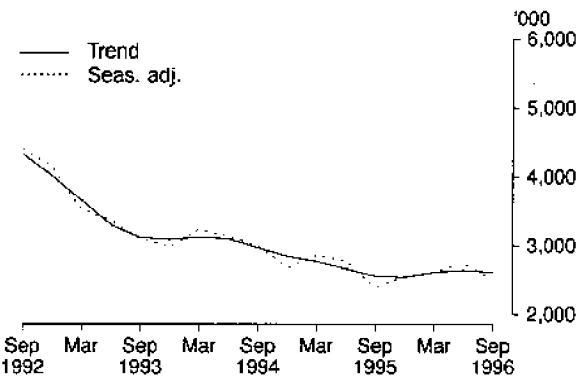
### Q2 WOMEN'S AND GIRLS' LONG TROUSERS (seasonally adjusted series average movement 14%)



### 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.



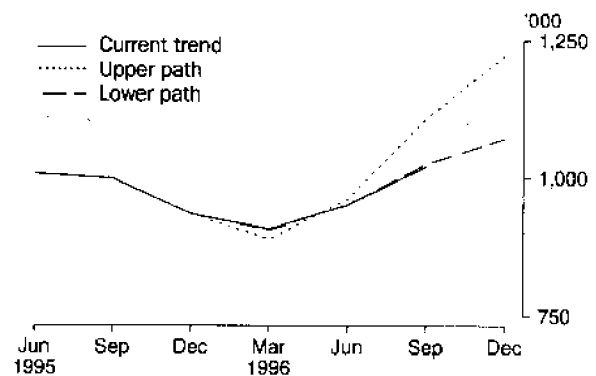
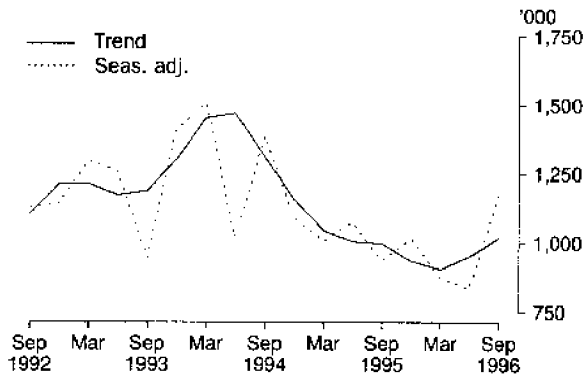
# Q

## QUARTERLY PRODUCTION *continued*

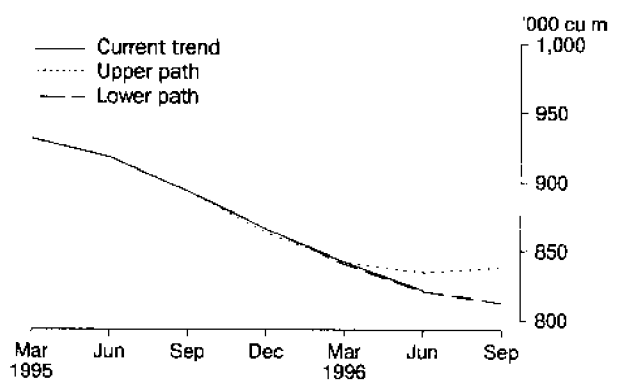
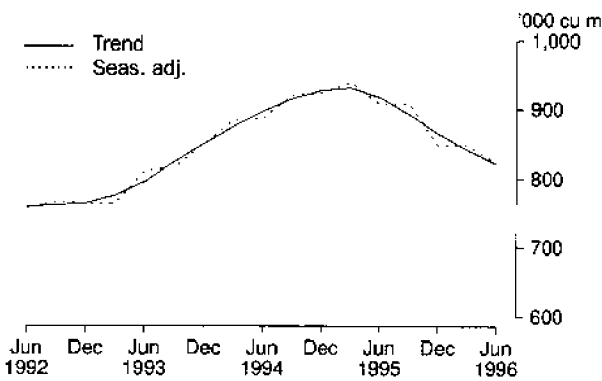
Longer term trend (a)

Short-term sensitivity analysis

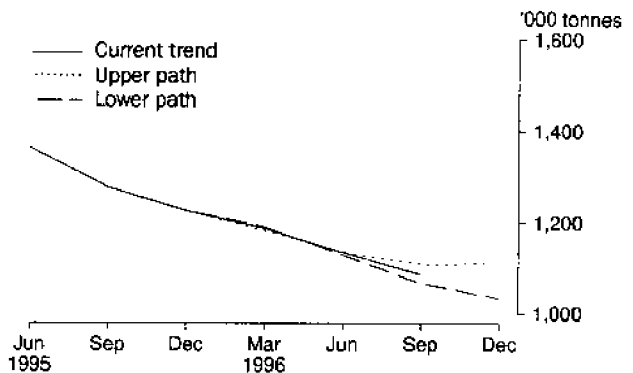
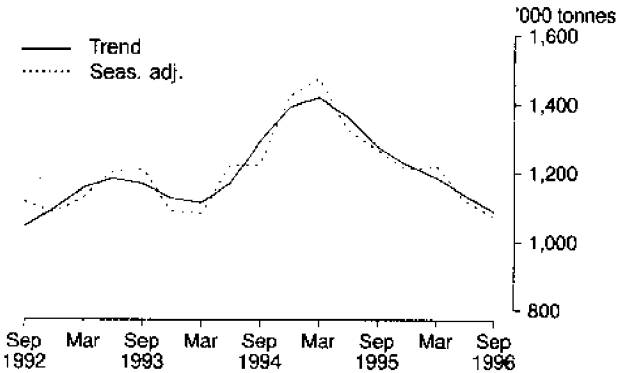
### Q5 WOMEN'S SHIRTS AND BLOUSES *(seasonally adjusted series average movement 12%)*



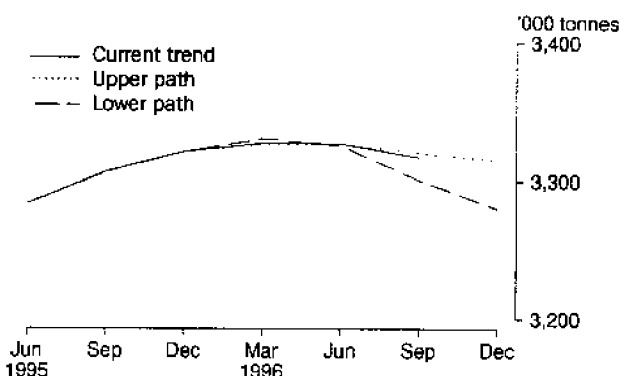
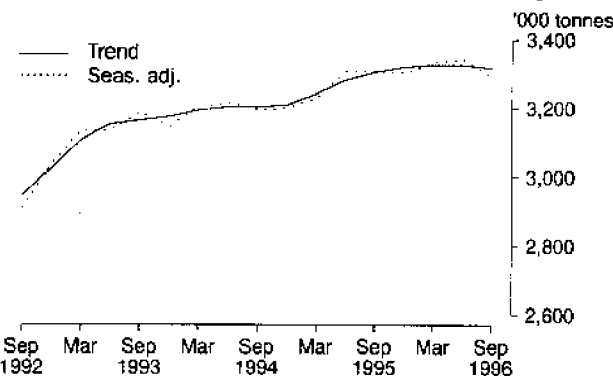
### Q6 UNDRESSED SAWN TIMBER(g) *(seasonally adjusted series average movement 3%)*



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



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



For footnotes see page 23.

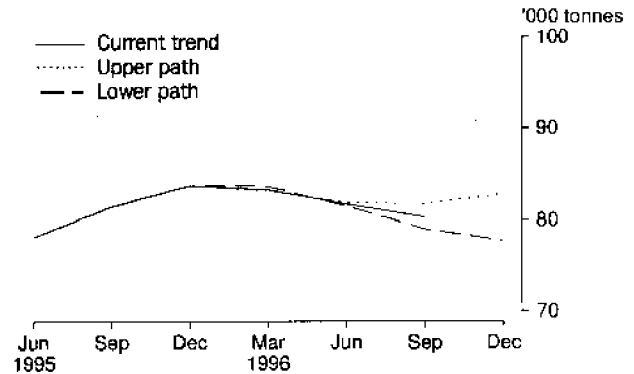
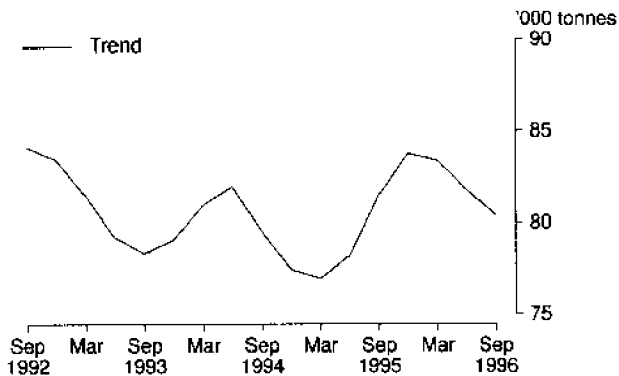
# Q

## QUARTERLY PRODUCTION *continued*

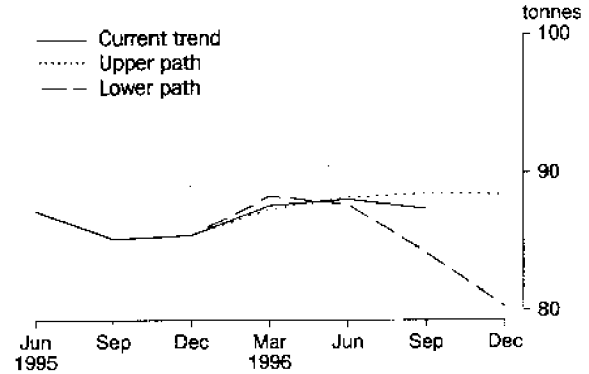
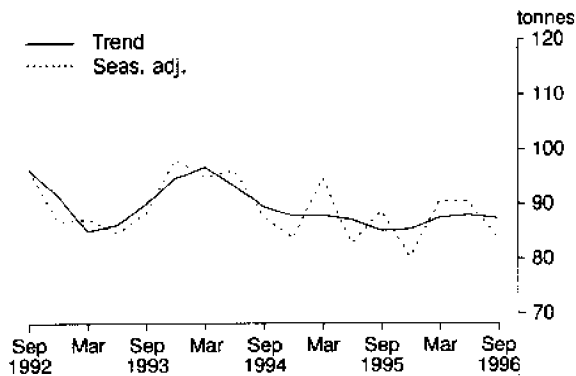
### Longer term trend (a)

### Short-term sensitivity analysis

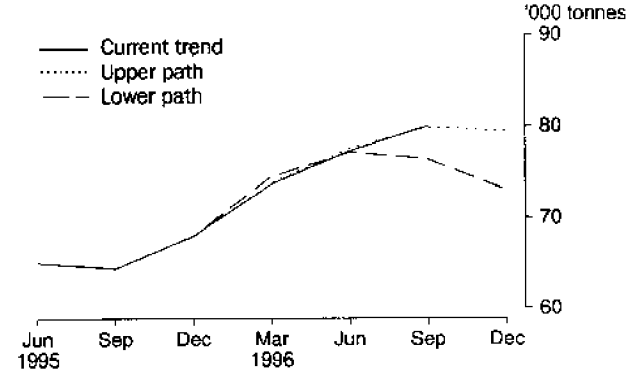
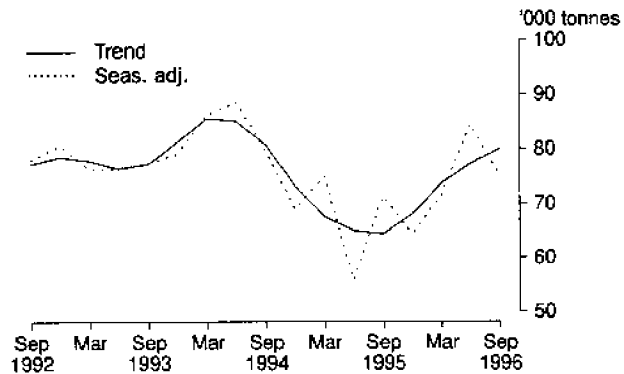
#### Q9 ZINC(g) (seasonally adjusted series average movement 6%)



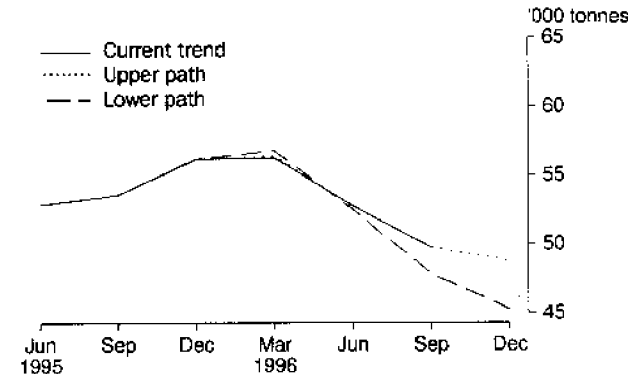
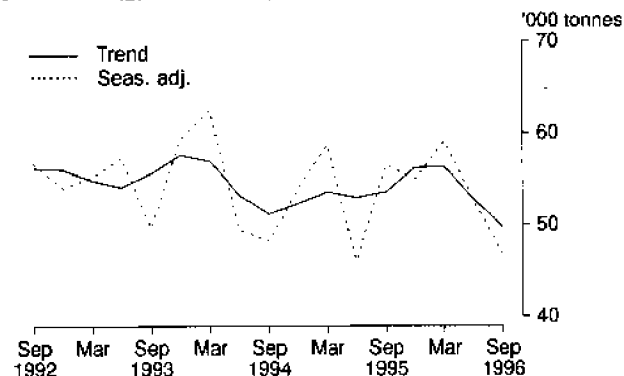
#### Q10 SILVER(g) (seasonally adjusted series average movement 9%)



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



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



For footnotes see page 23.

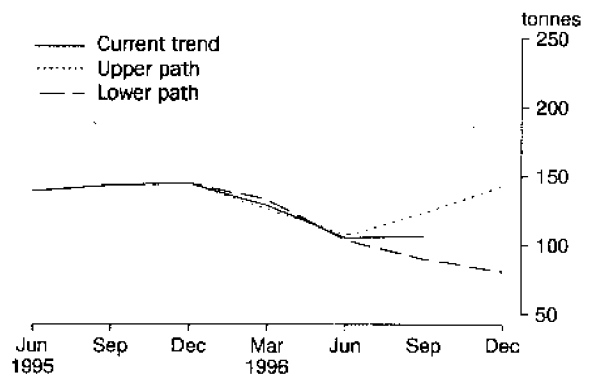
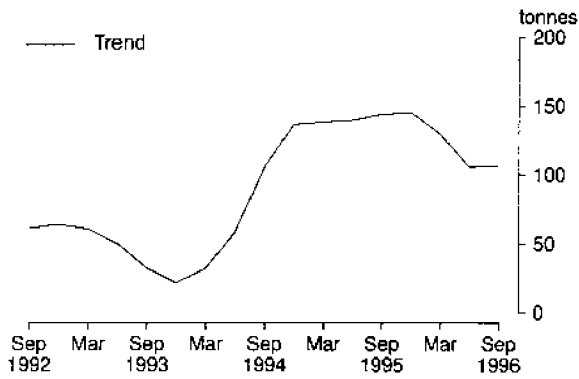
# Q

## QUARTERLY PRODUCTION *continued*

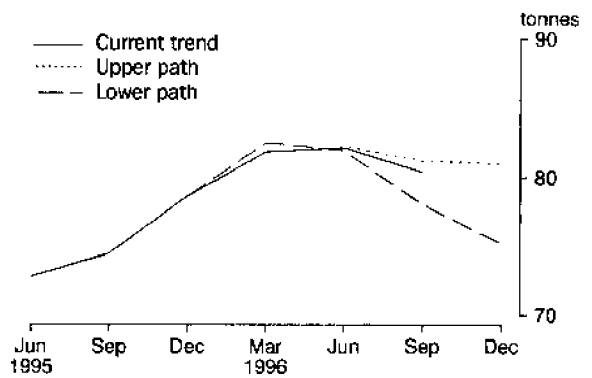
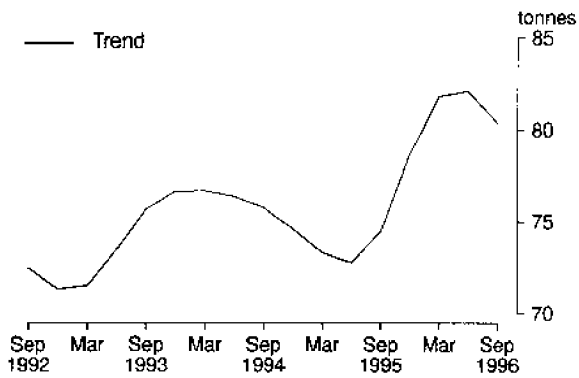
Longer term trend (a)

Short-term sensitivity analysis

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



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



For footnotes see page 23.

No.	Item	Series (a)	Unit	1996										Percentage changes between latest month shown and-	
				Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	prev. month	same month prev. year	
M1	Red meat	Orig.	'000 tonnes	227	202	229	196	203	196	198	221	n.y.a.	11.7	0.3	
		S. adj.	"	222	211	207	205	204	193	197	200	n.y.a.	1.6	-5.5	
		Trend	"	218	214	209	205	201	199	197	196	n.y.a.	-0.4	-9.2	
M2	Chicken meat	Orig.	tonnes	41,647	38,388	38,071	38,189	40,184	37,875	41,076	43,259	n.y.a.	5.3	16.3	
		S. adj.	"	42,266	37,483	37,996	38,624	38,037	40,912	41,981	41,169	n.y.a.	-1.9	12.7	
		Trend	"	39,202	38,887	38,700	38,874	39,342	40,008	40,681	41,510	n.y.a.	2.0	6.9	
M3	Cheese(b)	Orig.	"	19,898	19,805	16,140	12,118	11,783	17,548	28,873	n.y.a.	n.y.a.	64.5	5.7	
		S. adj.	"	21,006	23,320	22,518	24,036	20,324	21,864	23,798	n.y.a.	n.y.a.	8.8	9.0	
		Trend	"	22,063	22,240	22,363	22,437	22,462	22,493	22,565	n.y.a.	n.y.a.	0.3	1.6	
M4	Butter(b)	Orig.	"	11,499	8,793	7,065	8,562	6,186	8,598	16,590	n.y.a.	n.y.a.	93.0	63.2	
		S. adj.	"	12,270	12,653	13,482	17,107	14,142	13,785	14,090	n.y.a.	n.y.a.	2.2	63.5	
		Trend	"	12,800	13,371	13,934	14,345	14,573	14,647	14,600	n.y.a.	n.y.a.	-0.3	29.3	
M5	Flour of wheat or of meslin	Orig.	'000 tonnes	124	111	135	122	128	126	132	127	130	2.3	6.0	
		S. adj.	"	121	122	123	118	130	118	131	124	125	0.5	7.8	
		Trend	"	121	121	122	123	124	125	125	125	126	0.2	7.1	
M6	Prepared foods from cereals	Orig.	tonnes	10,431	7,277	8,951	7,758	7,012	8,991	8,722	8,713	9,274	6.4	-4.0	
		S. adj.	"	9,824	7,852	8,330	7,728	7,289	9,506	8,294	8,505	8,870	4.3	-3.7	
		Trend	"	8,577	8,451	8,283	8,154	8,154	8,301	8,485	8,664	8,774	1.3	3.4	
M7	Biscuits	Orig.	"	12,978	9,936	12,875	12,742	12,602	12,817	11,984	12,424	12,052	-3.0	-13.3	
		S. adj.	"	12,011	11,692	12,007	12,400	11,855	11,922	10,673	11,365	10,967	-3.5	-9.0	
		Trend	"	11,653	11,831	11,972	11,992	11,851	11,620	11,386	11,178	10,982	-1.7	-8.1	
M8	Chocolate based confectionery	Orig.	"	9,186	6,499	9,395	9,302	9,852	11,148	9,962	r 10,375	10,363	-0.1	-9.1	
		S. adj.	"	8,836	8,277	8,913	9,366	9,750	9,498	9,735	r 9,000	9,238	2.6	-6.8	
		Trend	"	8,786	8,796	8,967	9,202	9,390	9,478	9,478	9,435	9,335	-1.1	-3.5	
M9	Other confectionery	Orig.	"	6,518	4,418	6,057	6,605	6,201	6,907	6,822	r 7,028	6,694	-4.8	-10.0	
		S. adj.	"	6,537	5,478	5,993	6,244	5,864	5,891	6,148	r 6,267	5,590	-10.8	-9.5	
		Trend	"	5,972	5,985	6,004	6,000	6,004	6,015	6,010	5,994	5,929	-1.1	-3.1	
M10	Malt	Orig.	"	45,992	46,119	48,050	54,107	50,339	51,910	50,375	r 50,817	48,372	-4.8	-6.6	
		S. adj.	"	46,229	49,036	43,886	55,918	52,208	51,025	52,030	r 52,350	44,076	-15.8	-6.7	
		Trend	"	46,976	48,050	49,504	50,840	51,603	51,684	51,140	50,192	49,197	-2.0	6.3	
M11	Beer	Orig.	mil litres	147	131	146	120	129	136	133	177	n.p.	33.2	6.5	
		S. adj.	"	147	142	149	150	140	141	140	153	n.p.	9.4	3.4	
		Trend	"	142	143	145	145	145	144	145	146	n.p.	0.6	-2.0	
M12	Tobacco and cigarettes(c)	Orig.	tonnes	1,857	1,629	1,834	1,777	2,255	2,242	1,796	1,838	2,183	18.8	30.7	
		S. adj.	"	1,777	1,951	1,571	1,817	1,758	1,994	1,770	1,980	2,130	7.6	35.1	
		Trend	"	1,651	1,715	1,763	1,798	1,822	1,858	1,913	1,970	2,038	3.5	27.3	
M13	Man-made fibre woven fabric	Orig.	'000 sq m	12,196	9,327	14,094	11,011	12,258	13,061	12,598	r 15,479	13,517	-12.7	-8.5	
		S. adj.	"	11,160	10,464	12,745	10,544	11,438	12,147	12,682	r 14,760	12,150	-17.7	-9.6	
		Trend	"	11,385	11,232	11,248	11,467	11,829	12,269	12,684	13,036	13,231	1.5	4.2	
M14	Cotton woven fabric	Orig.	"	4,848	4,394	6,033	5,109	6,692	6,003	5,918	5,648	5,510	-2.4	-21.0	
		S. adj.	"	4,114	5,064	5,208	4,713	6,882	5,134	5,371	5,415	4,870	-10.1	-24.1	
		Trend	"	5,303	5,144	5,154	5,294	5,468	5,531	5,464	5,342	5,218	-2.3	-14.7	
M15	Cotton yarn	Orig.	tonnes	3,381	2,509	3,281	3,527	3,641	3,409	3,848	3,779	3,220	-14.8	-9.3	
		S. adj.	"	3,034	2,886	3,071	3,011	3,398	3,020	3,848	3,606	2,949	-18.2	-10.8	
		Trend	"	3,028	3,019	3,061	3,142	3,242	3,337	3,395	3,416	3,400	-0.5	9.9	
M16	Wool yarn	Orig.	"	1,685	1,445	1,673	1,483	1,646	1,577	1,569	1,847	1,592	-13.8	10.2	
		S. adj.	"	1,760	1,624	1,547	1,525	1,437	1,440	1,464	1,524	1,568	2.9	17.1	
		Trend	"	1,681	1,644	1,579	1,516	1,482	1,472	1,479	1,494	1,514	1.4	-7.0	

For footnotes see page 23.

No.	Item	Series (a)	Unit	1996										Percentage changes between latest month shown and-	
				Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	prev. month	same month prev. year	
M17	Wool woven fabric	Orig.	'000 sq m	608	412	528	536	487	449	566	581	723	24.3	14.7	
		S. adj.	"	539	419	468	604	473	421	633	495	692	39.9	21.0	
		Trend	"	522	505	492	491	502	522	547	575	598	4.1	4.6	
M18	Textile floor coverings	Orig.	"	3,855	3,456	3,621	3,249	3,784	3,684	3,791	r 4,434	4,055	-8.6	27.0	
		S. adj.	"	3,757	3,673	3,454	3,427	3,684	3,345	3,650	r 3,841	3,588	-6.6	30.8	
		Trend	"	3,694	3,654	3,582	3,526	3,528	3,561	3,603	3,644	3,686	1.2	7.7	
M19	Footwear	Orig.	'000 pairs	1,339	1,183	1,346	1,089	1,229	1,314	1,248	1,355	1,154	-14.8	-16.4	
		S. adj.	"	1,211	1,189	1,230	1,194	1,195	1,195	1,146	1,180	1,104	-6.4	-13.1	
		Trend	"	1,230	1,217	1,206	1,198	1,191	1,181	1,166	1,152	1,136	-1.3	-12.9	
M21	Newsprint	Orig.	tonnes	36,111	34,818	40,194	35,515	38,160	39,422	33,716	31,685	36,428	15.0	-6.4	
		S. adj.	"	36,001	34,046	37,595	37,379	38,449	40,315	35,018	32,976	36,886	11.9	-3.2	
		Trend	"	36,569	36,657	37,019	37,384	37,483	37,229	36,688	36,087	35,386	-1.9	-5.9	
M22	Wood pulp	Orig.	"	78,760	76,641	90,827	76,614	74,031	85,486	71,242	75,903	92,247	21.5	17.6	
		S. adj.	"	76,902	78,495	87,927	77,345	76,196	80,106	71,744	81,984	87,169	6.3	14.3	
		Trend	"	80,958	80,403	79,566	78,863	78,461	78,345	78,878	79,952	81,099	1.4	-2.9	
M23	Unlaminated particle board	Orig.	'000 cu m	74	68	73	67	63	62	65	78	74	-5.0	-6.2	
		S. adj.	"	71	68	65	68	61	58	61	65	70	7.8	1.5	
		Trend	"	69	68	66	64	63	62	63	64	65	2.3	-1.7	
M25	Paperboard containers	Orig.	'000 tonnes	91,749	84,024	88,295	81,107	99,703	94,662	95,312	109,883	103,329	-6.0	-2.5	
		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.	
M26	Automotive gasoline(d)	Orig.	megalitres	1,529	1,544	1,573	1,565	1,694	1,438	1,464	1,416	n.y.a.	-3.3	-7.3	
		S. adj.	"	1,527	1,586	1,521	1,583	1,585	1,443	1,495	1,432	n.y.a.	-4.2	-7.4	
		Trend	"	1,537	1,550	1,556	1,549	1,530	1,506	1,482	1,458	n.y.a.	-1.6	-4.0	
M27	Fuel oil(d)	Orig.	"	126	127	138	165	194	93	147	119	n.y.a.	-18.9	-23.4	
		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	"	142	144	146	147	143	136	129	122	n.y.a.	-5.3	-33.2	
M28	Aviation turbine fuel(d)	Orig.	"	414	392	378	359	443	369	447	502	n.y.a.	12.1	25.3	
		S. adj.	"	429	422	387	390	456	366	440	446	n.y.a.	1.3	22.6	
		Trend	"	417	411	407	407	411	416	423	431	n.y.a.	1.9	7.2	
M29	Automotive diesel oil(d)	Orig.	"	953	955	1,127	1,082	1,078	895	1,103	1,032	n.y.a.	-6.4	8.0	
		S. adj.	"	991	986	1,094	1,110	1,029	884	1,127	1,032	n.y.a.	-8.4	8.2	
		Trend	"	1,033	1,036	1,038	1,038	1,036	1,033	1,031	1,030	n.y.a.	-0.1	3.9	
M30	Plastics in primary forms	Orig.	'000 tonnes	108	100	113	81	100	108	100	96	92	-4.9	-4.7	
		S. adj.	"	107	100	112	88	88	107	96	86	96	10.8	-1.4	
		Trend	"	104	103	101	99	97	95	94	93	93	-1.0	-6.5	
M31	Rigid PVC tubes, pipes and hoses	Orig.	tonnes	9,229	7,599	9,608	8,780	9,439	8,944	6,847	7,186	7,653	6.5	0.1	
		S. adj.	"	8,804	8,707	7,990	8,444	8,021	8,392	7,233	7,281	7,496	3.0	4.9	
		Trend	"	8,170	8,400	8,462	8,333	8,107	7,877	7,673	7,495	7,369	-1.7	5.7	
M32	Polyethylene bottles up to two litres	Orig.	million	173	136	151	134	130	147	158	r 161	189	17.0	21.1	
		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	17,602	13,947	16,119	14,627	15,253	15,662	15,649	18,331	19,014	3.7	27.5	
		S. adj.	"	16,119	15,299	15,218	15,907	14,858	15,281	15,525	17,103	17,303	1.2	21.6	
		Trend	"	15,914	15,779	15,504	15,318	15,363	15,628	15,997	16,409	16,800	2.4	15.4	
M34	Superphosphates	Orig.	'000 tonnes	161	156	174	101	85	45	103	187	173	-7.5	-5.8	
		S. adj.	"	113	133	164	148	158	96	193	178	136	-23.6	-9.1	
		Trend	"	135	136	140	145	149	153	155	157	157	0.2	3.5	

For footnotes see page 23.

No.	Item	Series (a)	Unit	1996											Percentage changes between latest month shown and-	
				Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	prev. month	same month prev. year		
M35	Portland cement	Orig.	'000 tonnes	579	491	543	559	564	582	561	566	586	3.6	15.4		
		S. adj.	"	560	533	512	542	535	529	562	537	529	-1.5	15.5		
		Trend	"	541	541	537	534	535	538	540	541	541	0.0	4.0		
M36	Clay bricks	Orig.	million	123	116	125	117	126	128	126	137	124	-9.4	-2.6		
		S. adj.	"	116	118	113	116	116	119	125	126	122	-3.0	-0.9		
		Trend	"	113	114	115	116	118	120	122	123	125	1.2	2.1		
M37	Ready mixed concrete	Orig.	'000 cu m	1,288	1,104	1,307	1,157	1,319	1,320	1,272	1,438	1,404	-2.4	11.9		
		S. adj.	"	1,242	1,184	1,173	1,193	1,229	1,214	1,280	1,286	1,335	3.8	14.5		
		Trend	"	1,208	1,204	1,199	1,201	1,215	1,239	1,264	1,290	1,312	1.7	8.8		
M38	Basic iron, spiegeleisen & sponge iron(e)	Orig.	'000 tonnes	636	614	620	620	678	627	611	578	544	-5.9	-14.1		
		S. adj.	"	639	621	619	624	663	604	598	561	534	-4.9	-14.9		
		Trend	"	637	635	633	630	622	609	592	574	556	-3.1	-12.0		
M39	Blooms and slabs of iron or steel(e)	Orig.	"	670	642	655	658	696	666	633	626	590	-5.7	-11.8		
		S. adj.	"	679	659	664	670	694	648	611	593	581	-2.0	-11.9		
		Trend	"	668	672	674	670	659	643	625	607	589	-2.8	-10.7		
M40	Insulated wire	Orig.	tonnes	6,549	5,457	6,705	6,037	6,604	6,426	5,801	6,143	7,160	16.6	3.0		
		S. adj.	"	5,827	5,734	6,035	6,310	6,216	6,191	5,264	5,490	6,593	20.1	3.0		
		Trend	"	6,005	6,053	6,070	6,047	5,996	5,947	5,904	5,891	5,894	0.1	-2.6		
M41	Cars and station wagons	Orig.	number	26,050	22,629	30,293	25,310	30,701	25,747	28,863	29,916	26,149	-12.6	-6.0		
		S. adj.	"	25,433	25,924	25,761	25,720	27,208	22,334	26,777	25,848	24,109	-6.7	-0.7		
		Trend	"	26,027	25,913	25,747	25,650	25,563	25,418	25,255	25,095	24,954	-0.6	0.5		
M42	Vehicles for goods and materials	Orig.	"	2,430	2,168	2,864	2,419	2,830	2,714	2,465	2,397	2,227	-7.1	3.1		
		S. adj.	"	2,234	2,283	2,379	2,478	2,572	2,437	2,432	2,002	2,090	4.4	10.7		
		Trend	"	2,211	2,318	2,409	2,458	2,453	2,400	2,321	2,231	2,141	-4.1	11.7		
M43	Telephones	Orig.	'000	91	79	108	76	101	119	120	115	123	6.3	-14.8		
		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	33,988	20,441	36,299	27,261	35,700	29,593	37,143	40,414	35,942	-11.1	-16.1		
		S. adj.	"	31,532	24,079	33,366	32,761	38,557	31,683	40,168	34,102	32,567	-4.5	-8.4		
		Trend	"	31,406	30,924	31,483	32,883	34,417	35,392	35,680	35,602	34,845	-2.1	-6.1		
M45	Water heaters	Orig.	"	50,738	38,653	59,112	50,558	60,777	r 55,840	r 51,491	r 62,504	56,973	-8.8	-4.5		
		S. adj.	"	45,588	46,632	51,014	49,603	55,091	r 50,901	r 48,326	r 54,793	52,451	-4.3	-5.4		
		Trend	"	46,193	47,412	49,034	50,500	51,352	51,796	52,077	52,327	52,415	0.2	6.3		
M46	Domestic clothes washing machines	Orig.	"	20,595	15,306	25,940	27,380	31,489	26,685	21,682	24,860	22,056	-11.3	-25.2		
		S. adj.	"	20,537	17,435	25,089	27,200	27,587	21,813	19,629	21,854	19,924	-8.8	-22.4		
		Trend	"	21,654	22,412	23,447	24,182	24,186	23,486	22,381	21,275	19,955	-6.2	-21.4		
M47	Electric motors	Orig.	'000	204	185	267	213	228	254	214	248	249	0.5	-11.2		
		S. adj.	"	191	208	234	221	223	242	203	214	231	7.6	-9.1		
		Trend	"	230	222	218	220	223	223	222	221	220	-0.6	-13.2		
M48	Electricity	Orig.	mil k Wh	14,043	13,342	14,414	14,366	15,343	14,668	13,730	r 13,733	13,460	-2.0	1.1		
		S. adj.	"	14,116	14,169	13,925	13,950	14,101	13,602	13,911	r 13,770	14,046	2.0	1.8		
		Trend	"	14,033	14,051	14,025	13,968	13,909	13,870	13,855	13,857	13,880	0.2	0.4		
M49	Gas(f)	Orig.	terajoules	47,210	48,910	54,562	58,615	65,895	62,709	55,103	50,582	48,591	-3.9	3.3		
		S. adj.	"	52,385	52,715	50,485	50,295	53,308	52,420	50,874	49,609	52,435	5.7	3.9		
		Trend	"	52,134	51,995	51,842	51,660	51,558	51,493	51,420	51,339	51,368	0.1	-0.3		

For footnotes see page 23.

No.	Item	Series (a)	Unit	1994		1995		1996			Percentage changes between latest quarter shown and-					
				Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	prev. quarter	same quarter prev. year		
Q1	Men's and boys' long trousers	Orig.	'000	1,039	987	822	944	1,013	756	788	923	1,065	15.4	5.2		
		S. adj.	"	1,005	1,006	932	858	977	772	893	839	1,027	1,027	22.4	5.1	
		Trend	"	991	982	947	907	880	852	854	897	966	966	7.6	9.7	
Q2	Women's and girls' long trousers	Orig.	"	407	380	628	443	252	202	359	458	247	247	-46.0	-2.1	
		S. adj.	"	440	486	510	414	275	261	288	429	271	271	-36.9	-1.7	
		Trend	"	449	489	478	403	305	277	312	340	338	338	-0.5	10.9	
Q3	Jeans	Orig.	"	941	770	641	887	979	764	706	851	852	852	0.2	-12.9	
		S. adj.	"	826	817	777	813	857	810	858	779	746	746	-4.2	-13.0	
		Trend	"	828	806	799	812	833	842	823	791	759	759	-4.1	-8.9	
Q4	Men's and boys' shirts	Orig.	"	3,545	2,900	2,347	2,554	2,841	2,741	2,179	2,529	2,974	2,974	17.6	4.7	
		S. adj.	"	2,995	2,688	2,859	2,772	2,404	2,557	2,632	2,741	2,519	2,519	-8.1	4.8	
		Trend	"	2,963	2,844	2,767	2,667	2,561	2,542	2,616	2,651	2,616	2,616	-1.3	2.1	
Q5	Women's shirts and blouses	Orig.	"	1,787	1,218	806	864	1,202	1,132	697	674	1,511	1,511	124.3	25.7	
		S. adj.	"	1,388	1,094	1,009	1,076	935	1,017	874	835	1,177	1,177	40.9	25.8	
		Trend	"	1,314	1,158	1,047	1,006	998	935	907	951	1,021	1,021	7.3	2.3	
Q6	Undressed sawn timber(g)	Orig.	'000 cu m	967	916	883	925	956	839	798	839	n.y.a.	n.y.a.	5.1	-9.3	
		S. adj.	"	921	924	940	907	909	849	848	824	824	n.y.a.	n.y.a.	-2.9	-9.2
		Trend	"	916	928	932	918	893	866	842	821	821	n.y.a.	n.y.a.	-2.5	-10.5
Q7	Hardwood woodchips	Orig.	'000 tonnes	1,286	1,417	1,402	1,332	1,334	1,203	1,163	1,128	1,128	1,128	0.0	-15.4	
		S. adj.	"	1,223	1,424	1,477	1,324	1,269	1,211	1,224	1,120	1,073	1,073	-4.2	-15.4	
		Trend	"	1,291	1,392	1,420	1,364	1,277	1,226	1,188	1,136	1,087	1,087	-4.3	-14.9	
Q8	Alumina(g)	Orig.	"	3,235	3,203	3,203	3,299	3,348	3,297	3,311	3,336	3,334	3,334	-0.1	-0.4	
		S. adj.	"	3,197	3,204	3,232	3,308	3,307	3,302	3,337	3,345	3,293	3,293	-1.6	-0.4	
		Trend	"	3,204	3,210	3,245	3,284	3,307	3,321	3,327	3,327	3,317	3,317	-0.3	0.3	
Q9	Zinc(g)	Orig.	"	82	78	72	81	82	85	81	82	82	82	0.0	0.0	
		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.	n.p.
		Trend	"	80	77	77	78	82	84	83	82	80	80	-1.7	-1.4	
Q10	Silver(g)	Orig.	tonnes	88	79	93	89	89	75	90	97	84	84	-13.4	-5.6	
		S. adj.	"	88	84	95	83	89	80	91	90	84	84	-7.3	-5.6	
		Trend	"	90	88	88	87	85	85	88	88	87	87	-0.7	2.6	
Q11	Copper(g)	Orig.	'000 tonnes	87	68	71	55	r 78	r 63	r 68	r 83	82	82	-1.2	5.1	
		S. adj.	"	80	69	75	56	r 71	r 64	r 72	r 84	75	75	-11.3	5.0	
		Trend	"	81	73	68	65	64	68	74	77	80	80	3.4	24.2	
Q12	Lead(g)	Orig.	"	49	55	53	49	57	56	54	56	47	47	-16.1	-17.5	
		S. adj.	"	48	54	59	46	56	55	59	53	47	47	-11.4	-17.3	
		Trend	"	51	52	54	53	54	56	56	53	50	50	-5.8	-7.2	
Q13	Tin(g)	Orig.	tonnes	75	135	180	65	165	160	90	135	100	100	-25.9	-39.4	
		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	"	106	136	138	140	144	145	130	106	107	107	1.3	-25.7	
Q14	Gold(g)	Orig.	"	78	71	74	74	75	75	85	83	81	81	-3.1	7.4	
		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	75	73	73	74	79	82	82	80	80	-2.1	7.9	

(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.

# 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 yarn production.

- 1** The December seasonally adjusted estimate is the same as the November estimate.
- 2** The December seasonally adjusted estimate is higher than the November estimate by 9%.
- 3** The December seasonally adjusted estimate is lower than the November estimate by 9%.
- 4** The December seasonally adjusted estimate results in a revised November trend estimate which is identical to the new December trend estimate.

The percentage change of 9% was chosen because it currently represents the average absolute monthly percentage change for this series over the last thirty years.

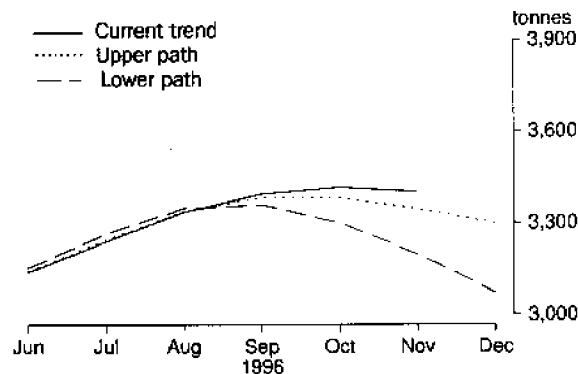
### M15 COTTON YARN (tonnes)

WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:

		<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
	TREND as PUBLISHED	2 949 <i>i.e. the same as Nov 1996</i>	3 205 <i>i.e. rises by 9%</i>	2 694 <i>i.e. falls by 9% for Nov and Dec</i>	3 551 <i>i.e. same trend</i>
1996					
September	3 395	3 373	3 384	3 361	3 400
October	3 416	3 341	3 379	3 303	3 430
November	3 400	3 272	3 343	3 200	3 440
December (new)	—	3 186	3 294	3 079	3 440

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 YARN





# 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 Department of Primary Industries and Energy, Petroleum and Fisheries Division publication *Australian Petroleum Statistics*, from July 1996. Previously, these data were obtained from ABARE.

**8** Data on the production of cheese and butter are obtained from the 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 non-systematic effect of strikes, holiday shutdowns, providers' inconsistent reporting periods (where, for example, a 'month' may variously represent 4 or 5 weeks production), or other factors which vary with the prevailing demand for products. Irregular influences that are highly volatile can make it difficult to interpret the movement of the series even after seasonal adjustment.

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

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

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

RELATED PUBLICATIONS

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

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

## EXPLANATORY NOTES *continued*

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

### UNPUBLISHED STATISTICS

**17** Additional manufacturing production data are collected by the ABS through user funded surveys and are available to users as a special data service. These series are:

domestic refrigerators  
domestic deep-freezers  
water heaters  
clothes drying machines  
domestic cooking stoves, ovens and ranges  
space heaters  
mowers  
air conditioners  
audio cassette tapes  
audio compact discs  
liquid supply or production meters  
brass bars, rods and sections  
strip for retreading rubber tyres  
electricity  
gas  
semi-trailers  
mineral waters and aerated waters  
starches, wheat gluten and glucose  
ham and bacon and canned meat  
ready mixed concrete  
concrete blocks, bricks and pavers  
roof tiles  
clay bricks  
Portland cement  
mattresses and mattress supports  
knitted underwear  
foundation garments  
footwear

A more detailed breakdown of most published series is also available as a special data service.

For further information, please call John Ridley on (02) 9268 4541.

### CURRENT PUBLICATIONS

**18** Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, 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 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 and crispbread.
M8 Chocolate based confectionery	Includes confectionery containing chocolate; excludes chocolate biscuits and chocolate intended for further manufacturing.
M9 Other confectionery	Excludes chocolate based confectionery.
M10 Malt	Includes malt flour.
M11 Beer	Includes ale and stout; excludes low alcohol beer containing less than 1.15% but more than 0.5%, by volume of alcohol.
M12 Tobacco and cigarettes	Includes those containing tobacco substitutes.
M13 Man-made fibre woven fabric	Broadwoven fabric of, or predominantly of, synthetic staple fibres and/or filament.
M14 Cotton woven fabric	Broadwoven fabric of, or predominantly of, cotton; excludes gauze.
M15 Cotton yarn	Of, or predominantly of cotton, reported on a single yarn basis; excludes sewing thread.
M16 Wool yarn	Of, or predominantly of, wool or fine animal hair.
M17 Wool woven fabric	Broadwoven woollen and worsted fabrics of, or predominantly of, wool or fine animal hair.
M18 Textile floor coverings	Consisting of carpets, carpeting (excluding underfelt), floor rugs, mats and matting of, or predominantly of, textile materials.
M19 Footwear	Includes sports and waterproof footwear; excludes thongs.
M21 Newsprint	Excludes directory paper, mechanical and printing paper.
M22 Wood pulp	Expressed as air-dried weight.
M23 Unlaminated particle board	Particle or similar boards of wood or other ligneous materials whether or not for subsequent conversions to other purposes; excludes fibreboard and fibre paperboard.
M25 Paperboard containers	Includes corrugated paperboard and solid paperboard containers.
M26 Automotive gasoline	Produced by Australian refineries from imported and indigenous petroleum .

## APPENDIX CLARIFICATION OF TERMS *continued*

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

## APPENDIX CLARIFICATION OF TERMS *continued*

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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.

