



October 1996

EMBARGO: 11:30 AM (CANBERRA TIME) TUES 3 DEC 1996

Manufacturing Production

Australia

ABS Catalogue No. 8301.0

NOTES

FORTHCOMING ISSUES

ISSUE	RELEASE DATE
November 1996	7 January 1997
December 1996	4 February 1997
January 1997	5 March 1997

IN THIS ISSUE

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

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

Large revisions have been applied to the series 'M3 Cheese' and 'M4 Butter'. The trend and seasonally adjusted estimates of production for the series 'M34 Superphosphates' have also been revised.

Collection of the production item 'M24 Other paper', which has not been published since August 1995 due to confidentiality restrictions, has now been discontinued.

EFFECTS OF ROUNDING

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

SYMBOLS AND OTHER USAGES

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

INQUIRIES

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

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

W. McLennan
Australian Statistician

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KEY POINTS

GENERAL TRENDS

Latest trends indicate that of the 58 indicators available, 20 showed rising production trends, 21 showed falling trends while 17 were relatively stable.

INDICATORS AVAILABLE	PUBLISHED PRODUCTION TREND:		
	Rising	Falling	Stable
August 1996 issue	58	26	19
September 1996 issue	58	21	25
October 1996 issue	58	20	21

SERIES TRENDS

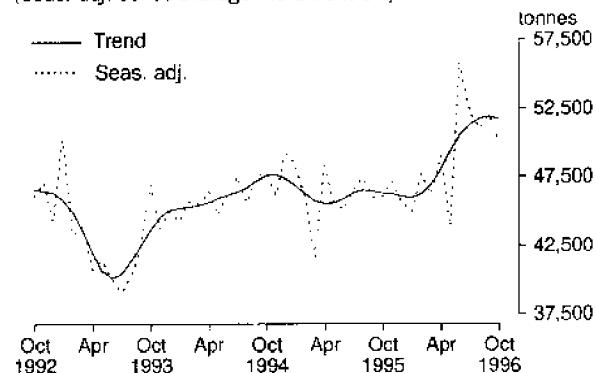
Two of the more notable trends were production of malt and newsprint.

Malt production for October 1996 was stable (falling slightly, by 0.3%). This reversed a trend which had been rising since February 1996. The trend will continue to fall in November 1996 unless the seasonally adjusted series rises by more than 4% (the average movement for this series is 5%).

Newsprint production fell by 2.1%, showing a downward trend each month from August 1996. (The previous issue showed that this series had stabilised after growth since April 1996.) This series will require a rise in the seasonally adjusted series of over 26% for trend growth to resume in November 1996 (the average movement for this series is 5%).

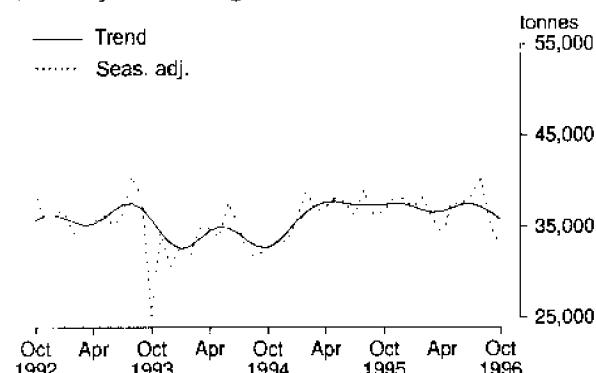
M10 MALT

(Seas. adj. series average movement 5%)



M21 NEWSPRINT

(Seas. adj. series average movement 5%)

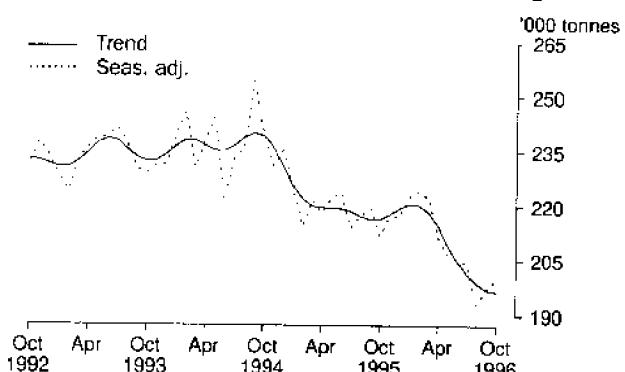


M

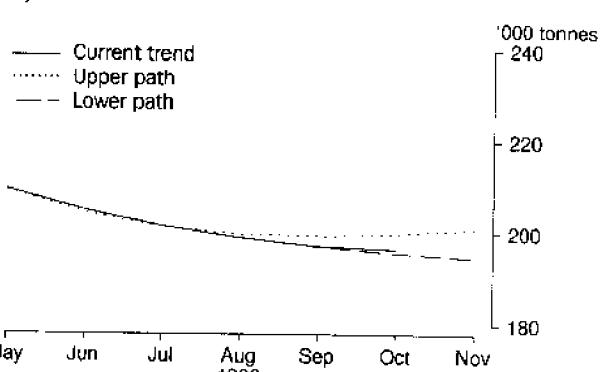
MONTHLY PRODUCTION

Longer term trend(a)

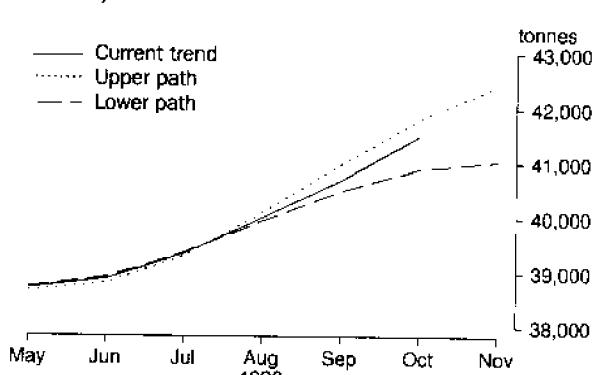
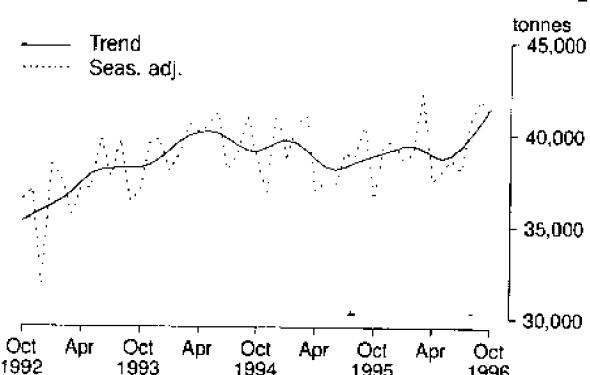
M1 RED MEAT (seasonally adjusted series average movement 4%)



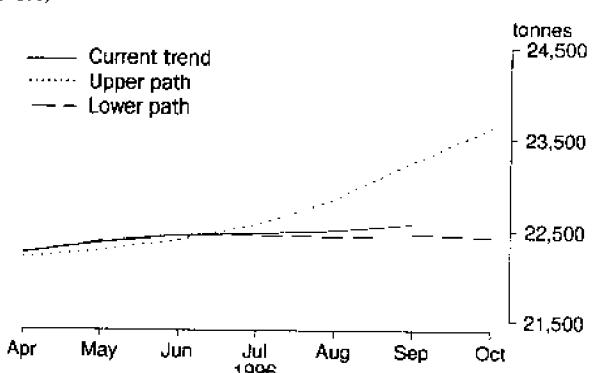
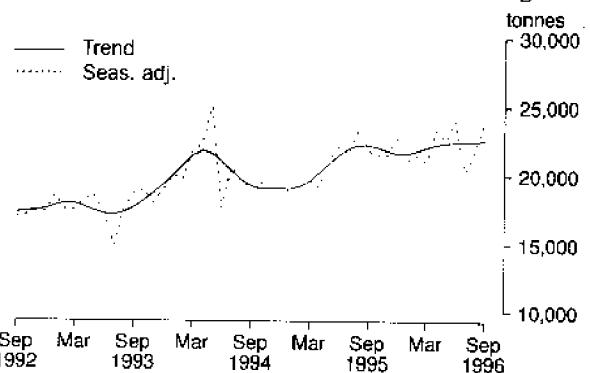
Short-term sensitivity analysis



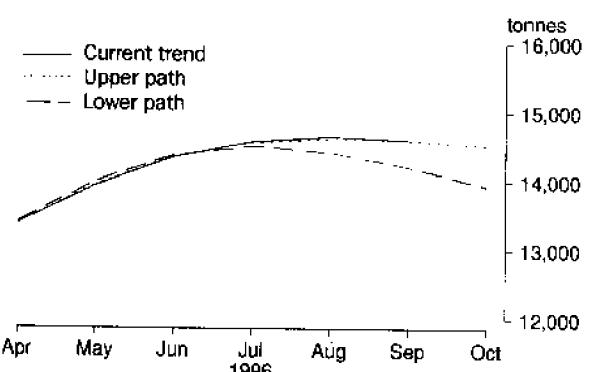
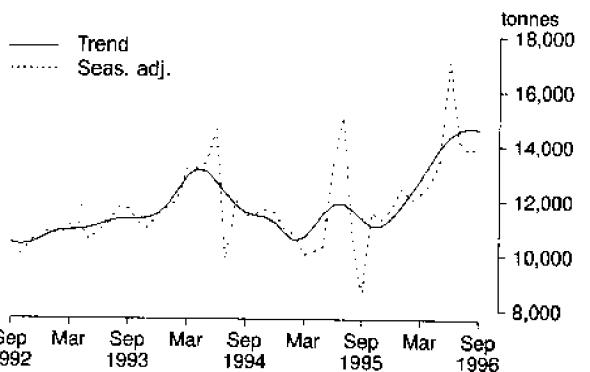
M2 CHICKEN MEAT (seasonally adjusted series average movement 4%)



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

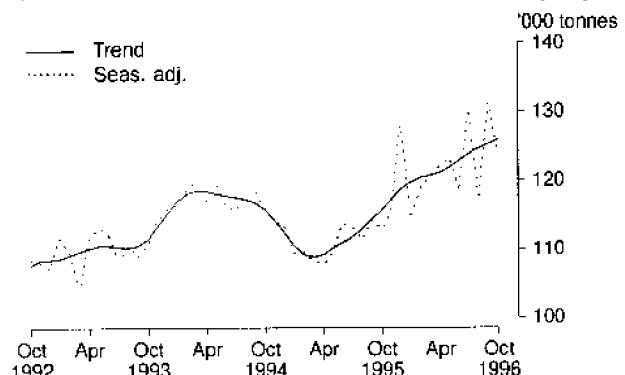


M4 BUTTER(b) (seasonally adjusted series average movement 7%)

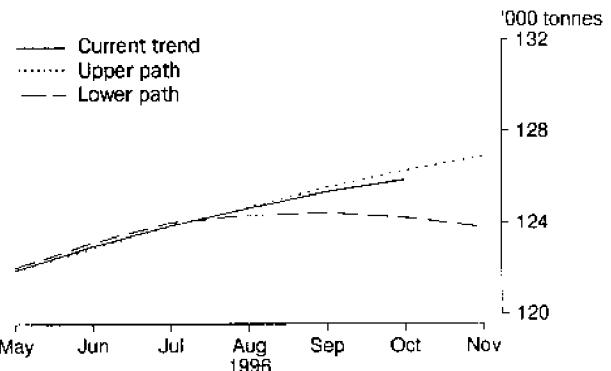
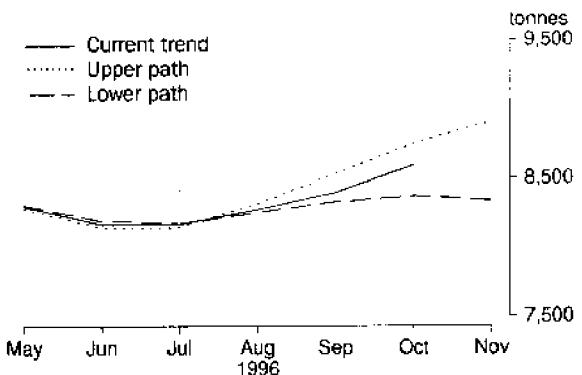
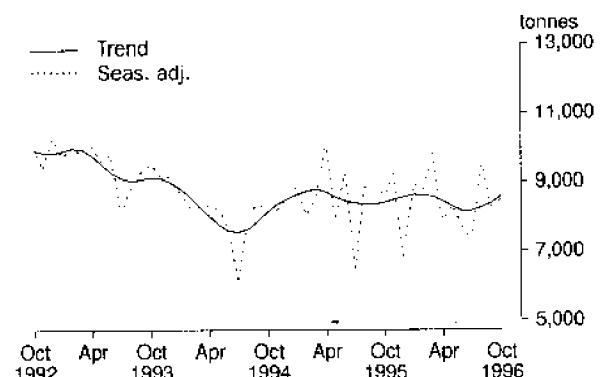
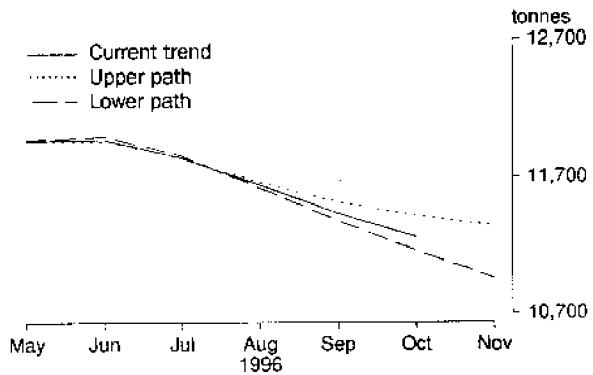
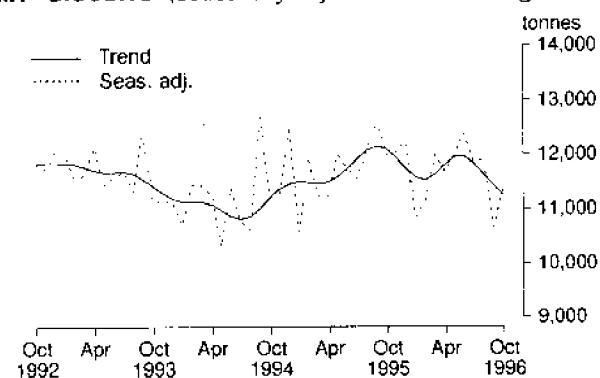
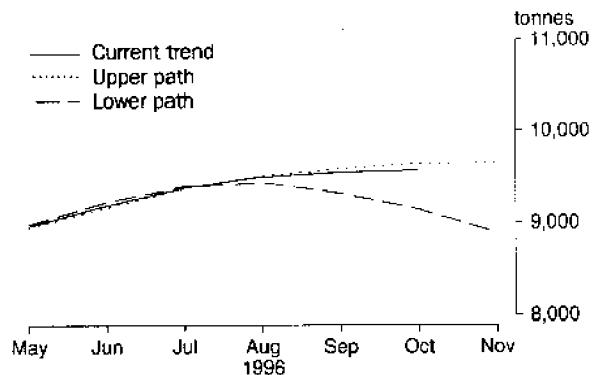
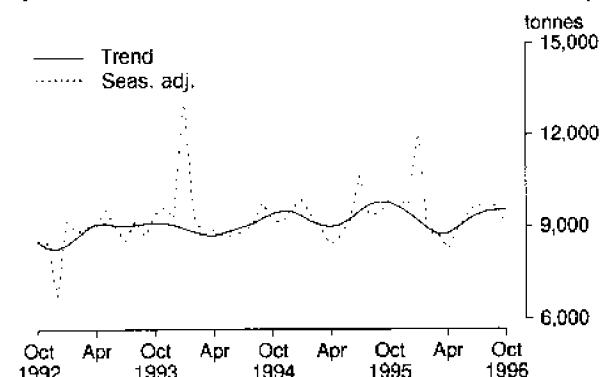


For footnotes see page 23.

Longer term trend (a)

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

Short-term sensitivity analysis

**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.

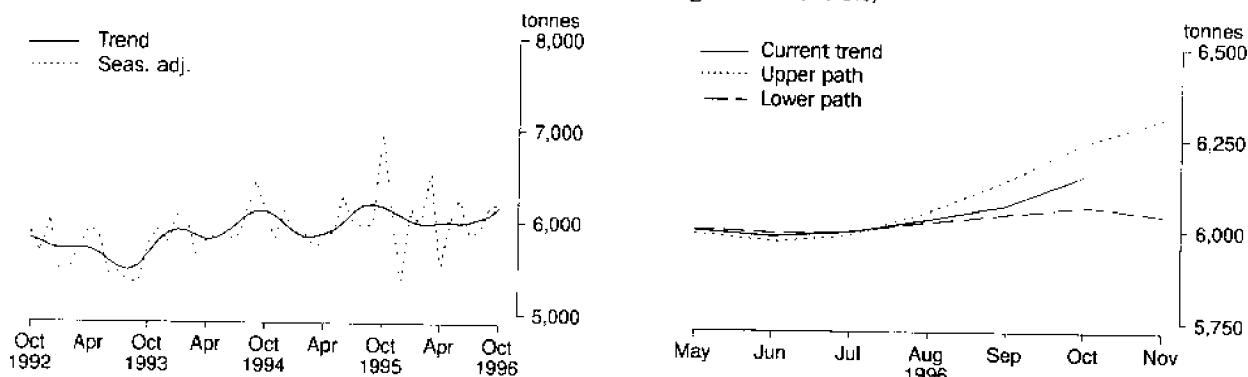
M

MONTHLY PRODUCTION *continued*

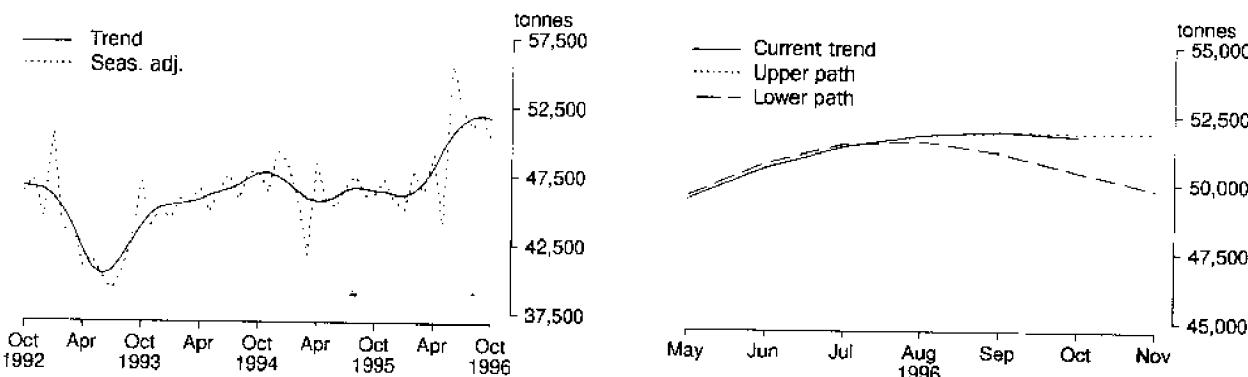
Longer term trend(a)

Short-term sensitivity analysis

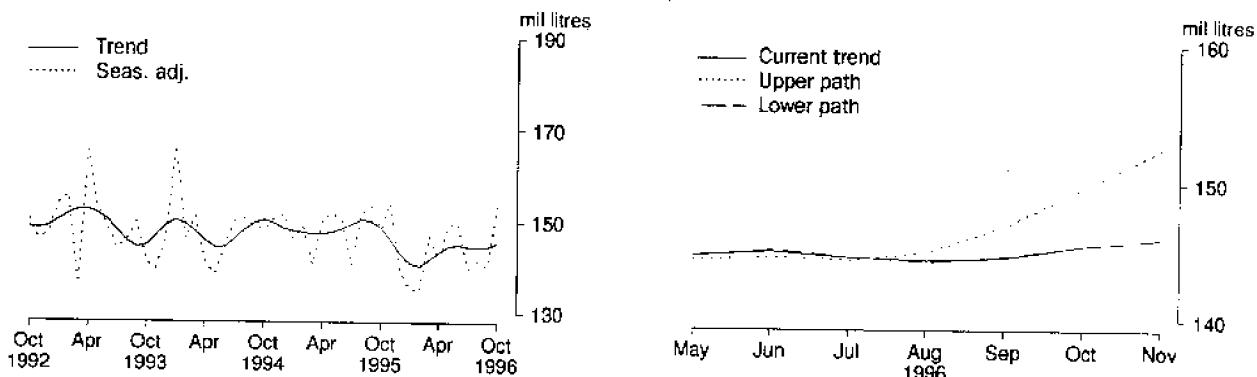
M9 OTHER CONFECTIONERY (seasonally adjusted series average movement 5%)



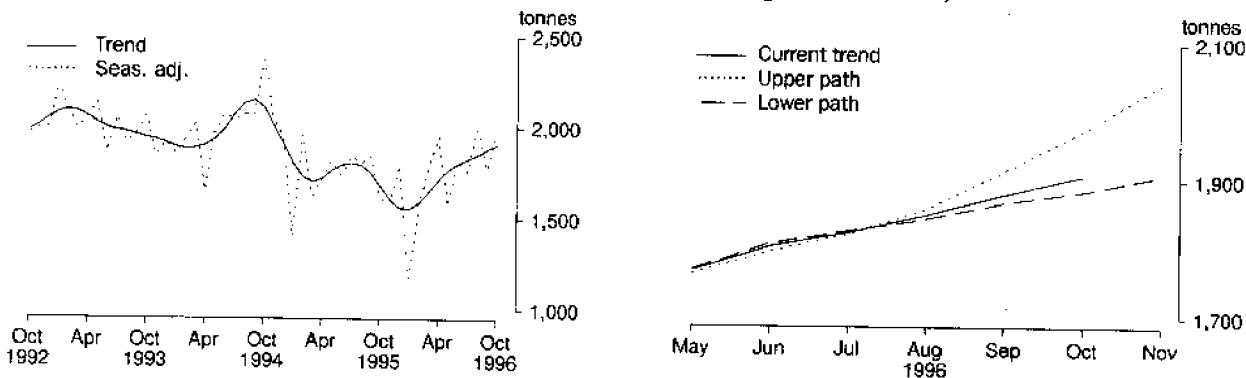
M10 MALT (seasonally adjusted series average movement 5%)



M11 BEER (seasonally adjusted series average movement 5%)



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

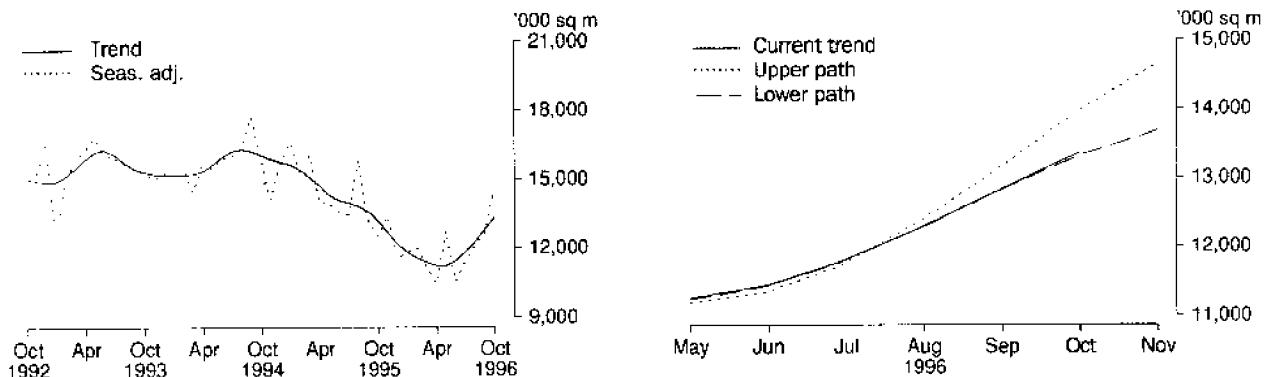
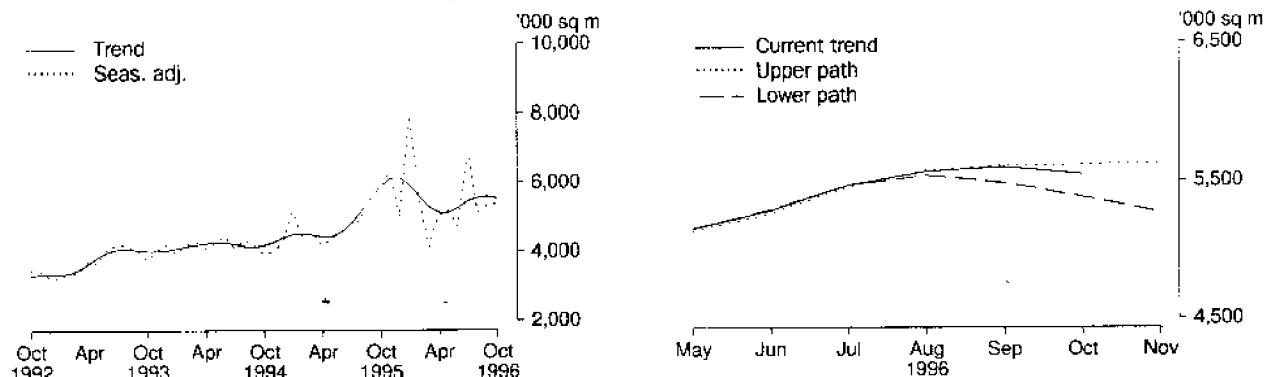
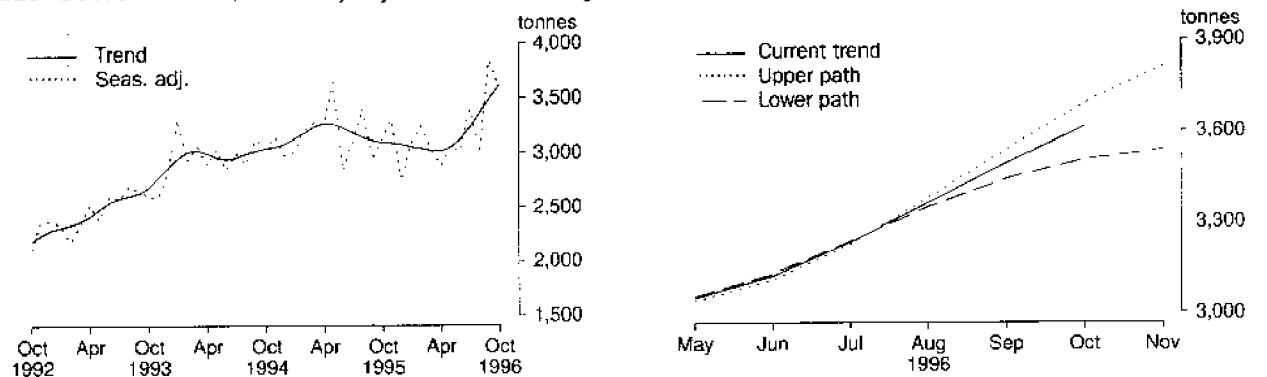
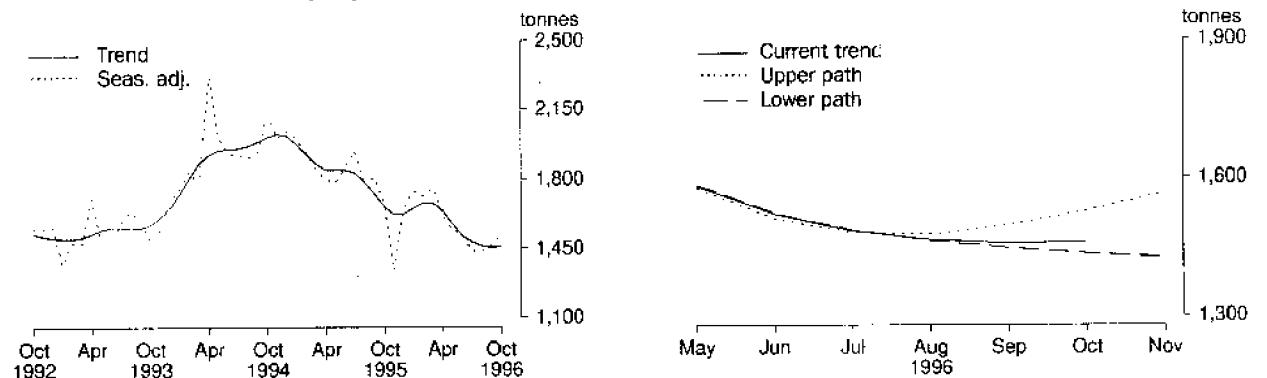


For footnotes see page 23.

MMONTHLY PRODUCTION *continued*

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%)

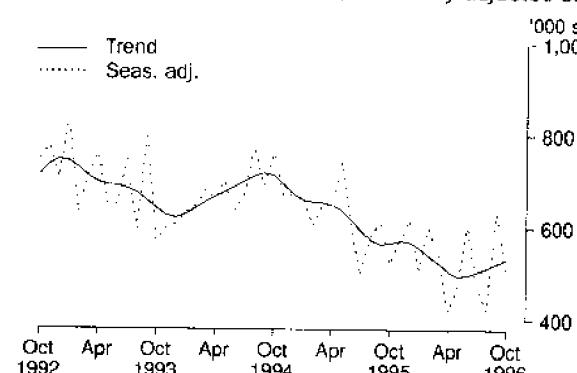
For footnotes see page 23.

M

MONTHLY PRODUCTION *continued*

Longer term trend(a)

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

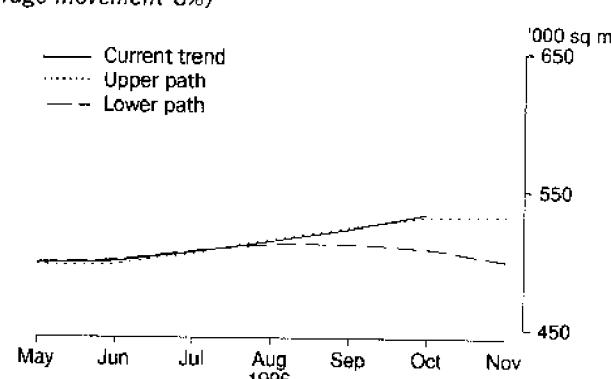


Short-term sensitivity analysis

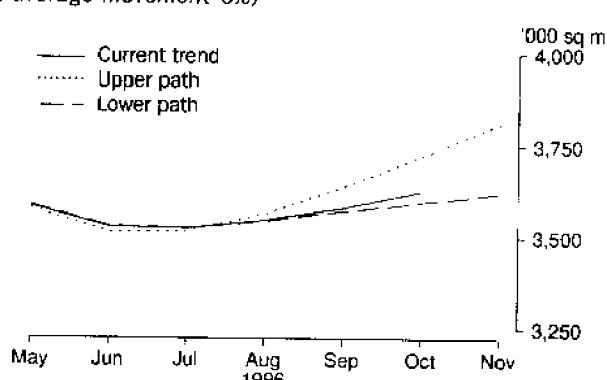
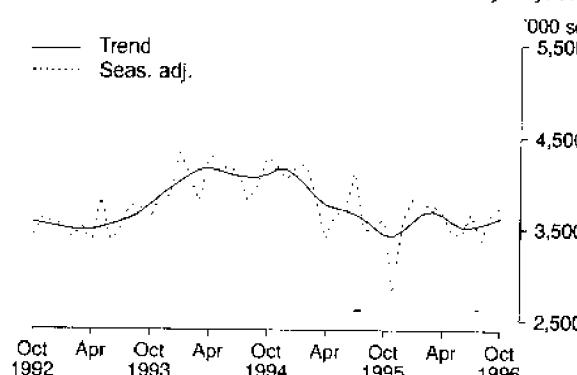
Current trend

Upper path

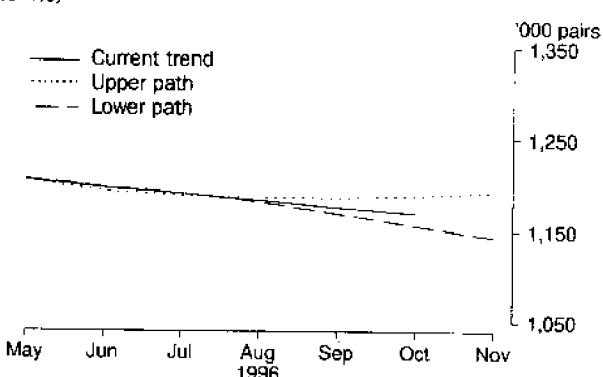
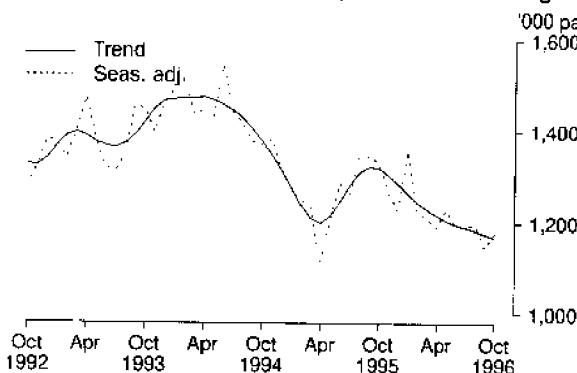
Lower path



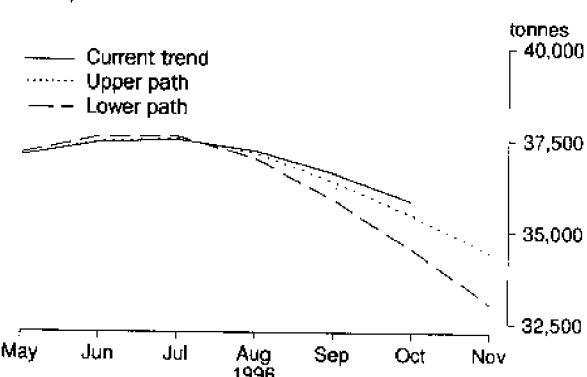
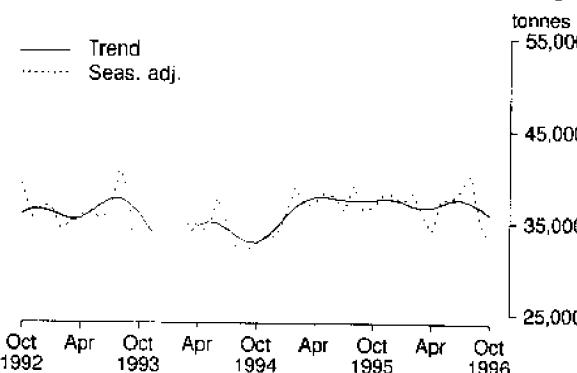
M18 TEXTILE FLOOR COVERINGS (seasonally adjusted series average movement 6%)



M19 FOOTWEAR (seasonally adjusted series average movement 4%)



M21 NEWSPRINT (seasonally adjusted series average movement 5%)



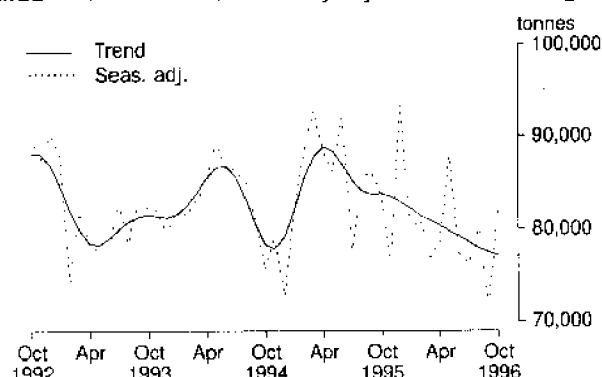
For footnotes see page 23.

M

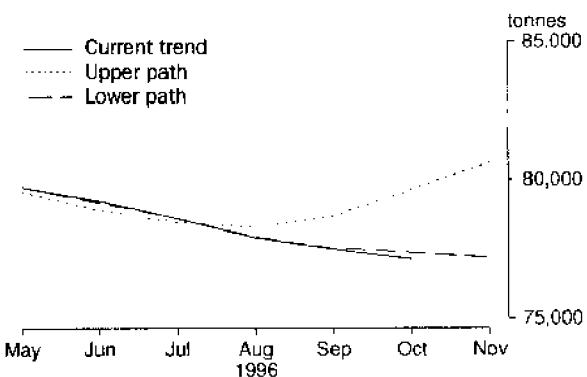
MONTHLY PRODUCTION continued

Longer term trend (a)

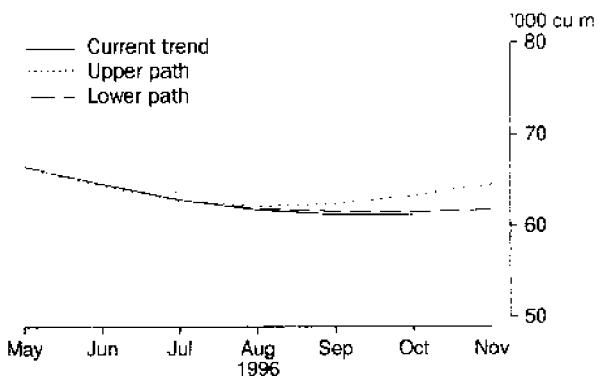
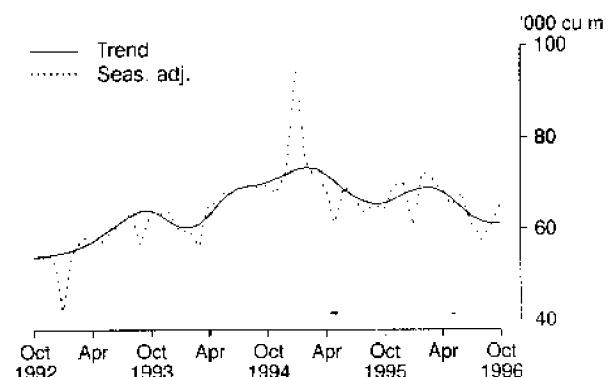
M22 WOOD PULP (seasonally adjusted series average movement 4%)



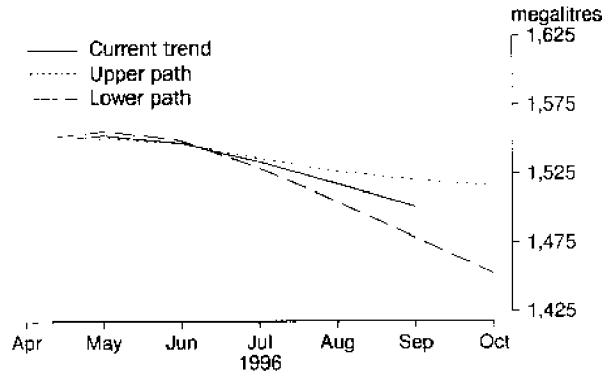
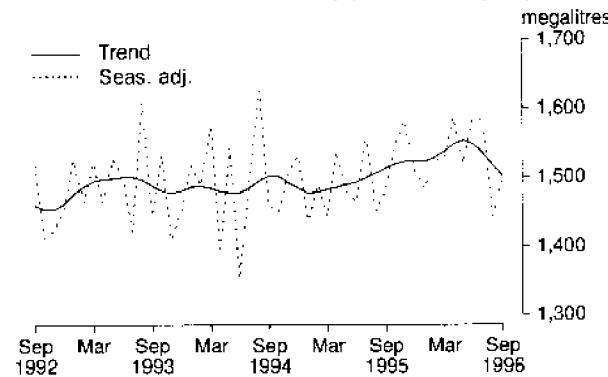
Short-term sensitivity analysis



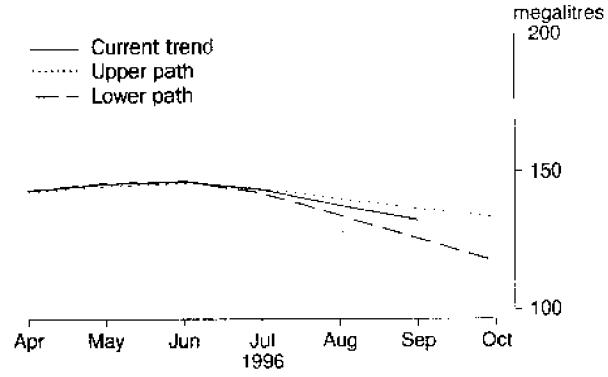
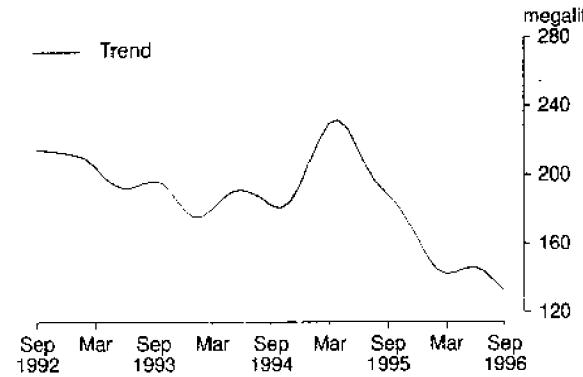
M23 UNLAMINATED PARTICLE BOARD (seasonally adjusted series average movement 5%)



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.

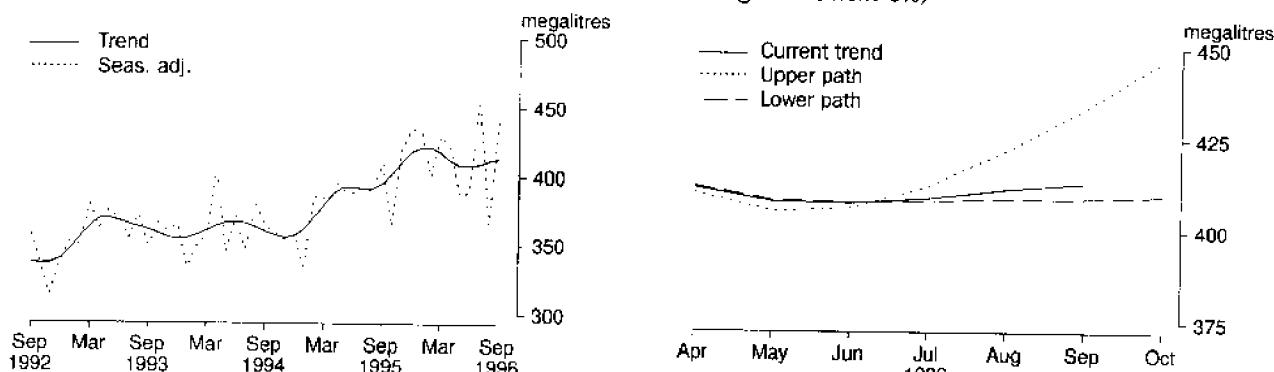
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MONTHLY PRODUCTION *continued*

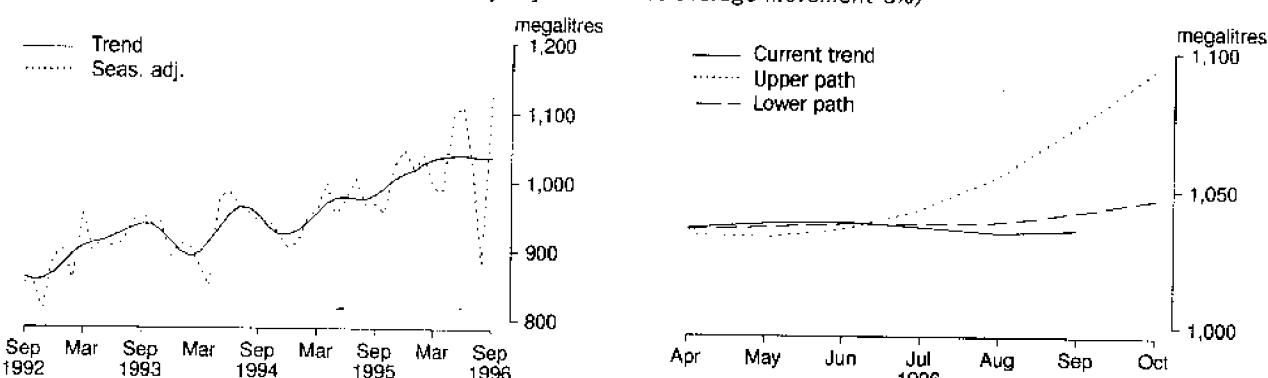
Longer term trend(a)

Short-term sensitivity analysis

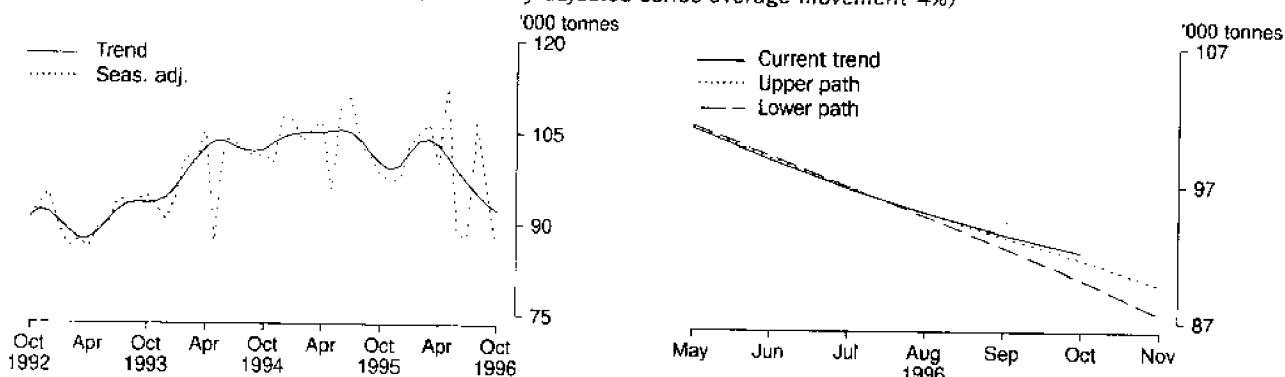
M28 AVIATION TURBINE FUEL(d) (seasonally adjusted series average movement 9%)



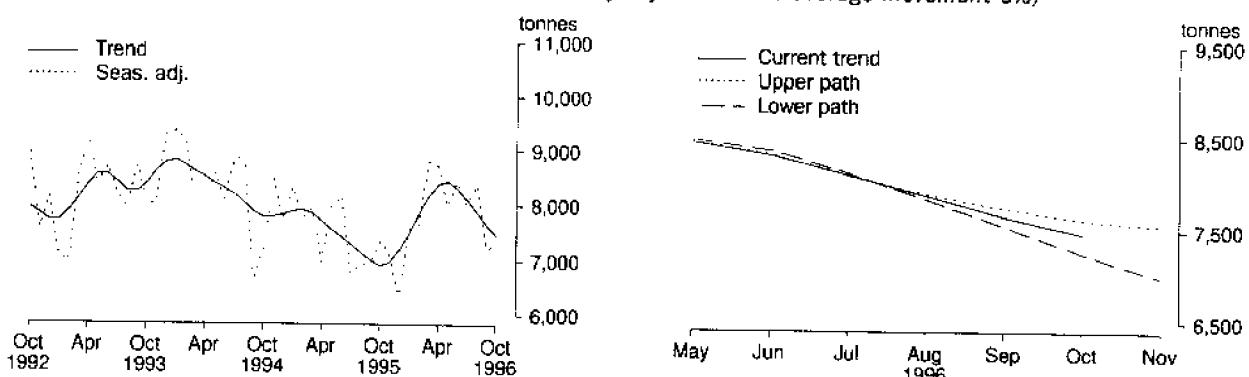
M29 AUTOMOTIVE DIESEL OIL(d) (seasonally adjusted series average movement 5%)



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



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



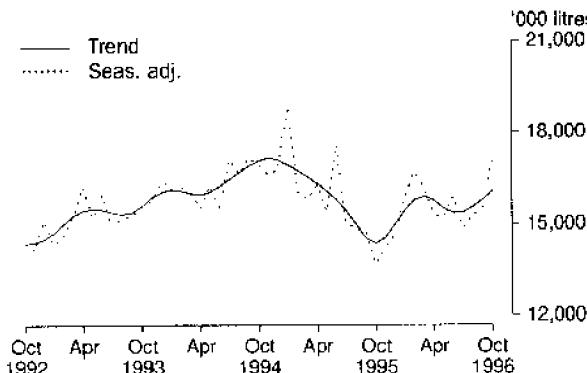
For footnotes see page 23.

M

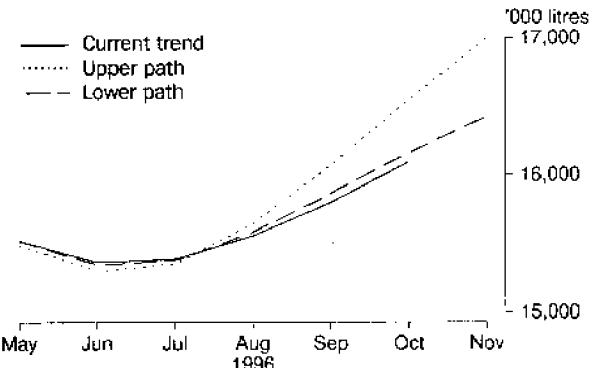
MONTHLY PRODUCTION *continued*

Longer term trend(a)

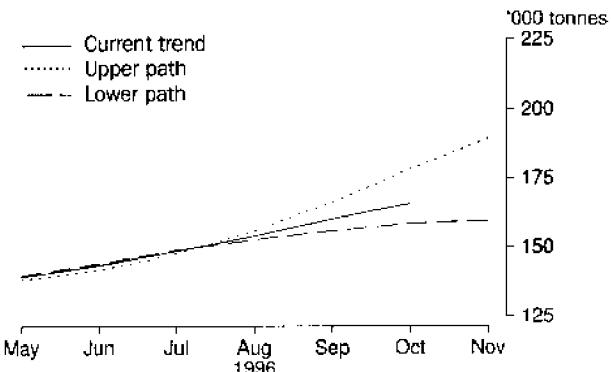
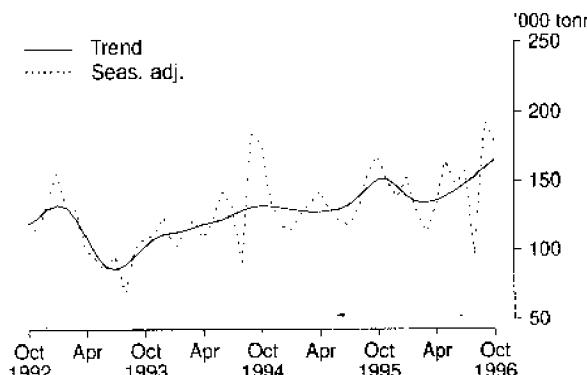
M33 PAINT (seasonally adjusted series average movement 4%)



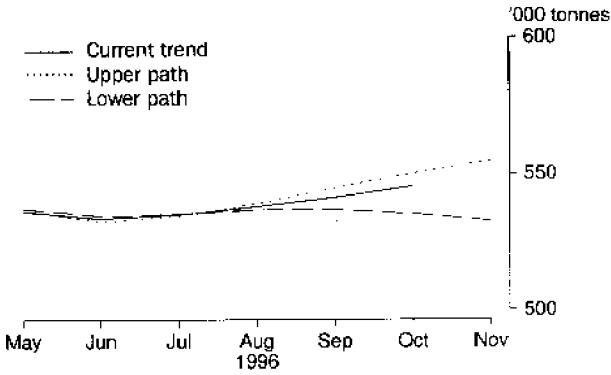
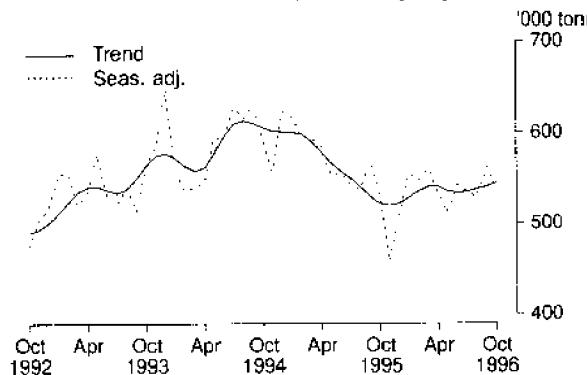
Short-term sensitivity analysis



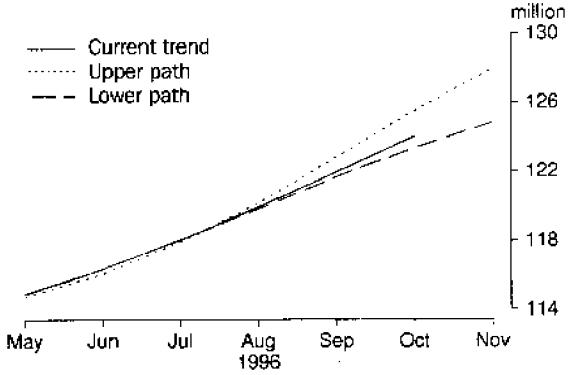
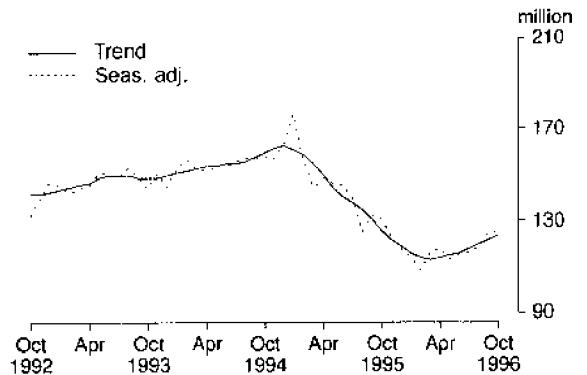
M34 SUPERPHOSPHATES (seasonally adjusted series average movement 15%)



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



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



For footnotes see page 23.

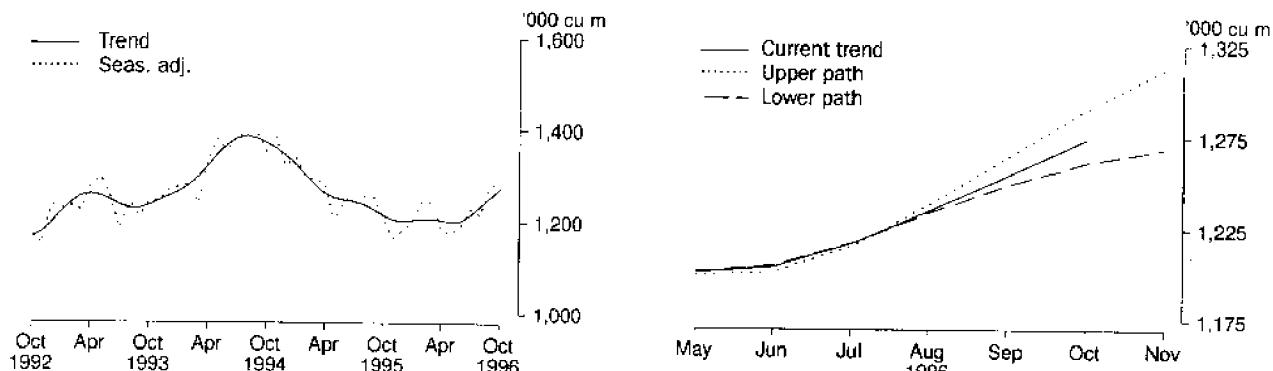
M

MONTHLY PRODUCTION *continued*

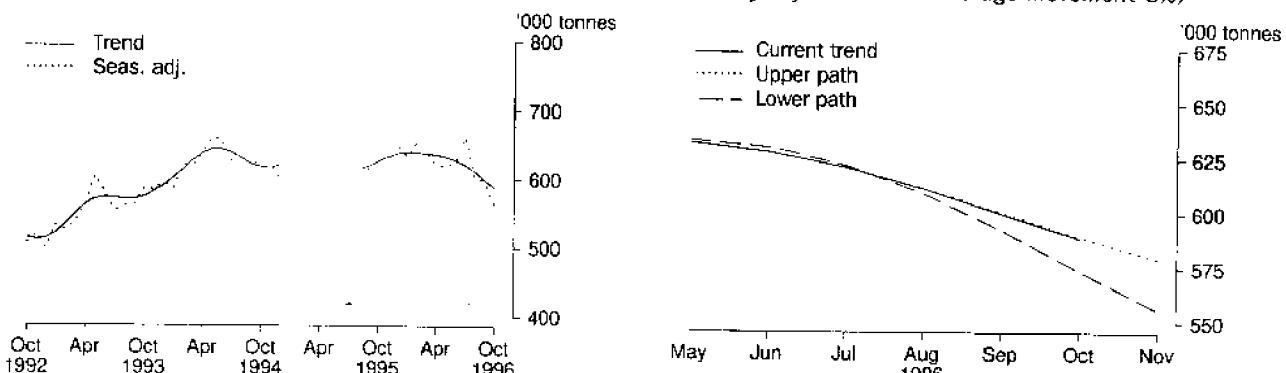
Longer term trend(a)

Short-term sensitivity analysis

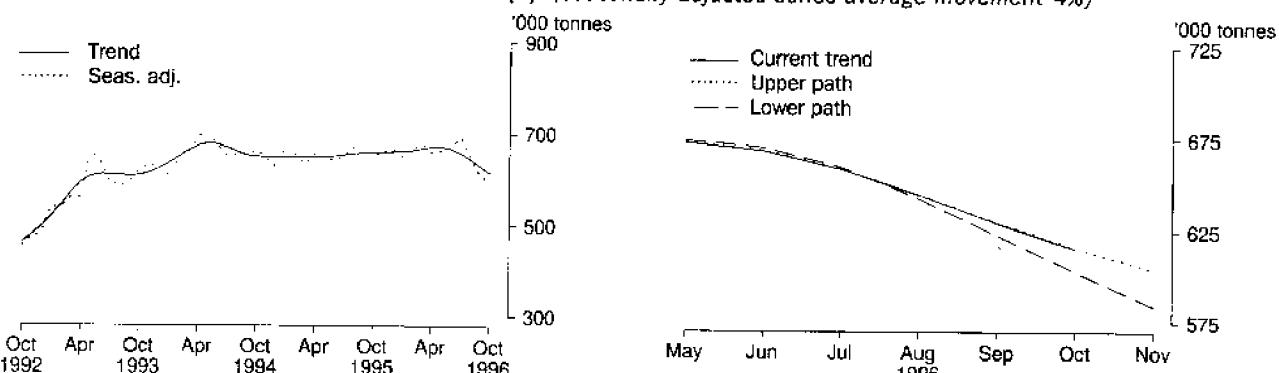
M37 READY MIXED CONCRETE (seasonally adjusted series average movement 4%)



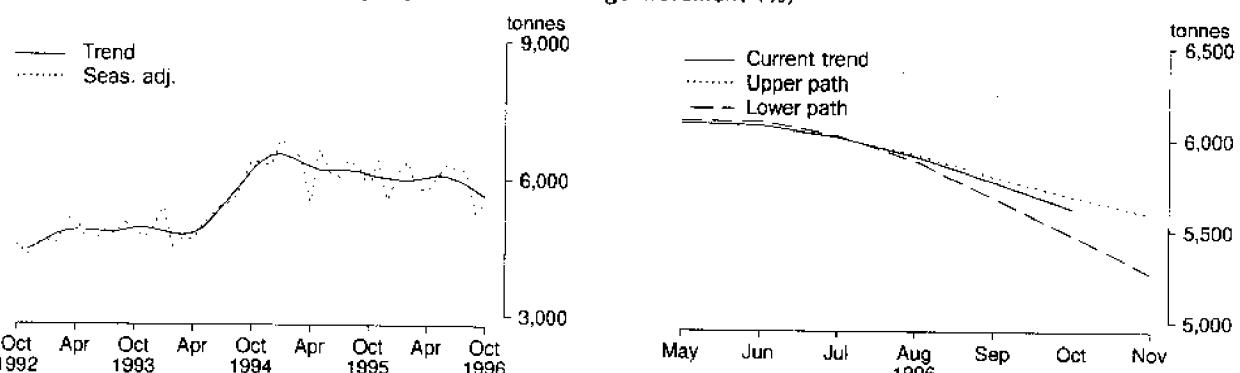
M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(e) (seasonally adjusted series average movement 5%)



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

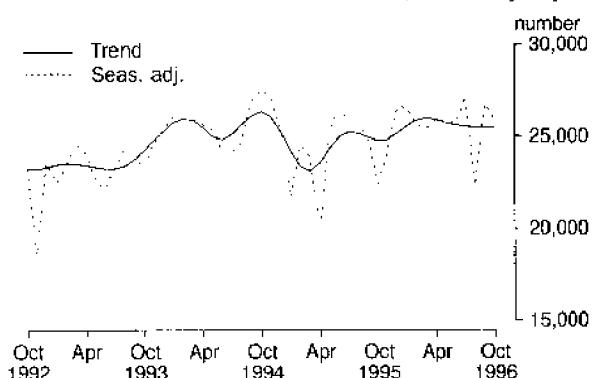


M40 INSULATED WIRE (seasonally adjusted series average movement 7%)

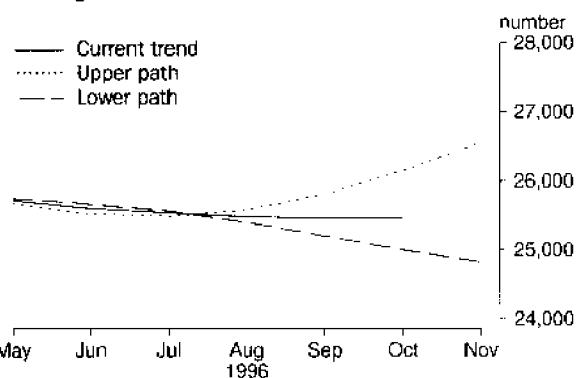
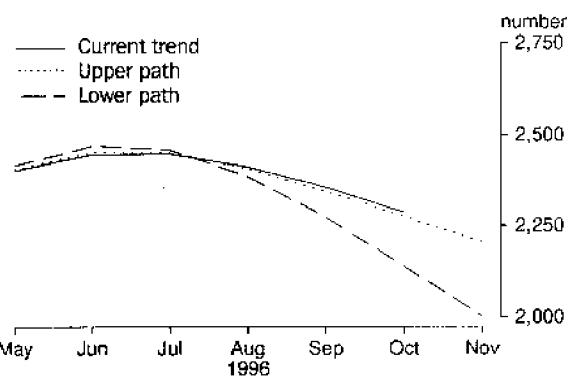
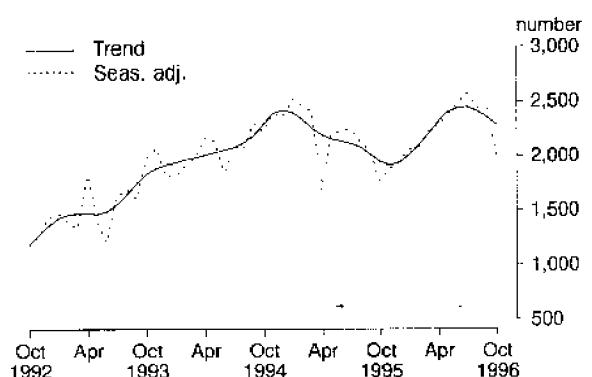
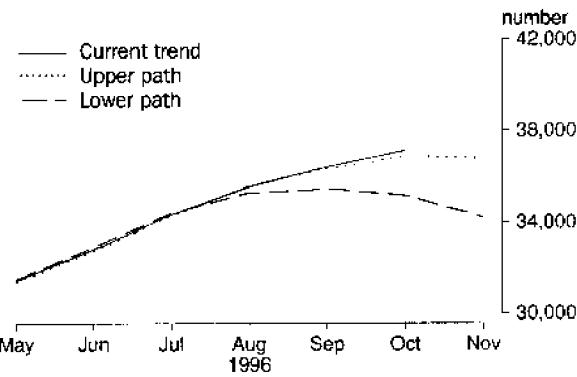
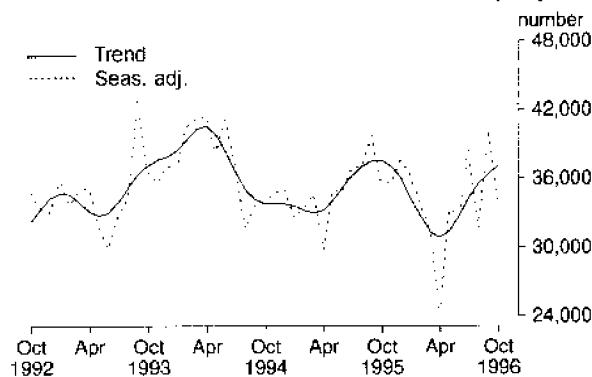
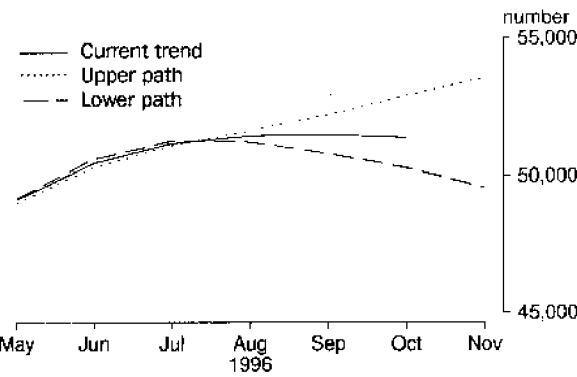
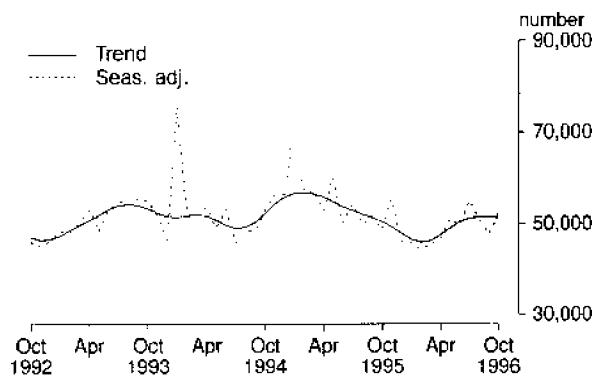


For footnotes see page 23.

Longer term trend(a)

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

Short-term sensitivity analysis

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

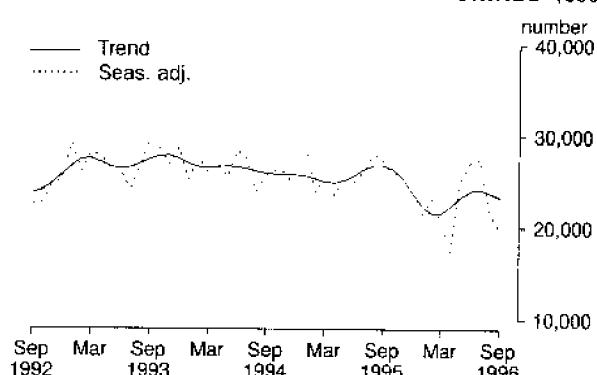
For footnotes see page 23.

M

MONTHLY PRODUCTION *continued*

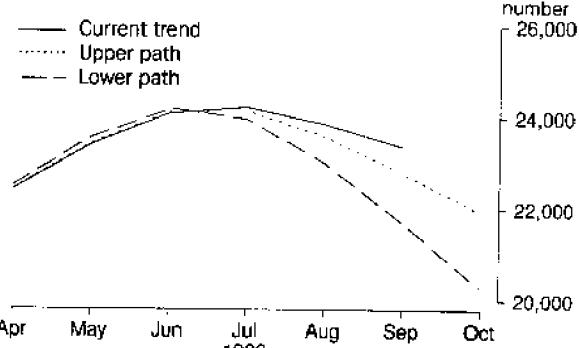
Longer term trend(a)

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

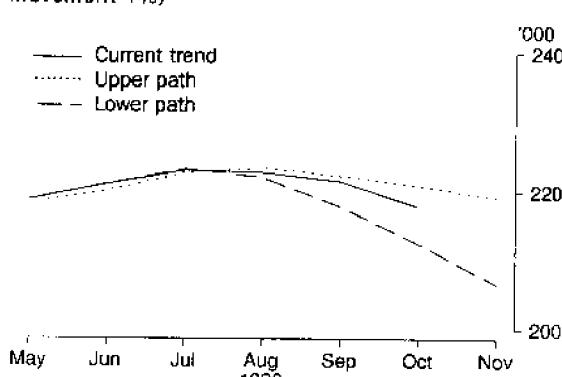
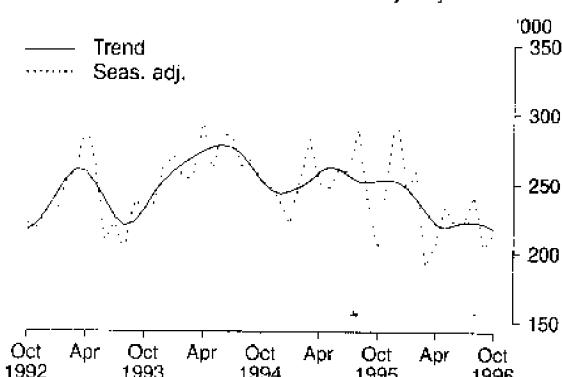


Short-term sensitivity analysis

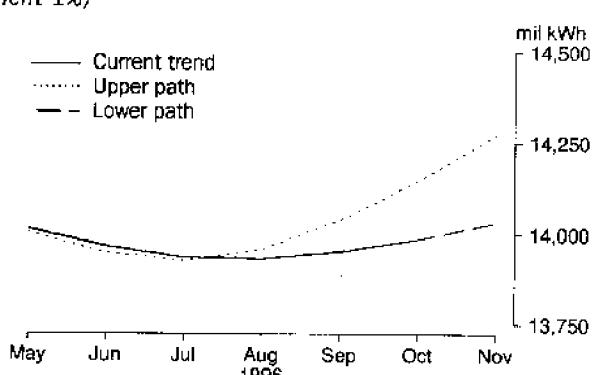
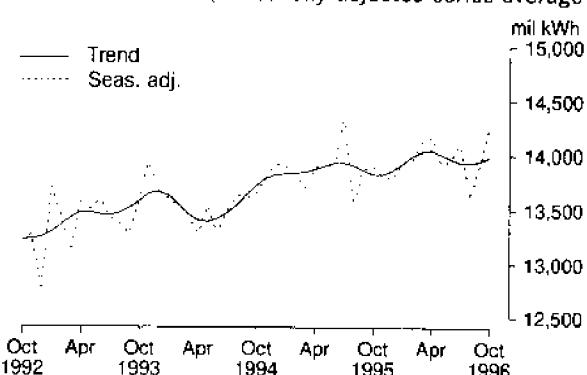
M46 DOMESTIC CLOTHES WASHING MACHINES (seasonally adjusted series average movement 9%)



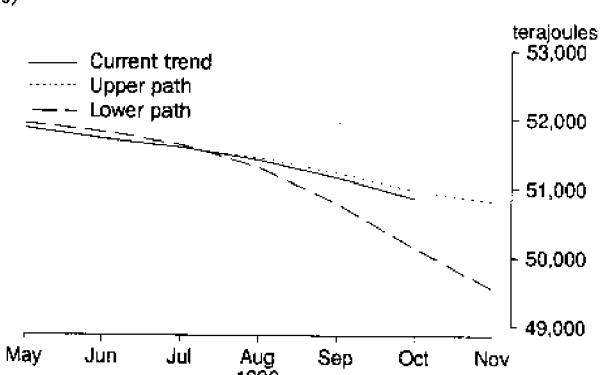
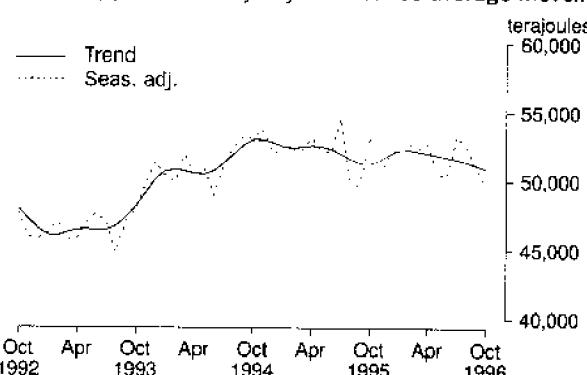
M47 ELECTRIC MOTORS (seasonally adjusted series average movement 7%)



M48 ELECTRICITY (seasonally adjusted series average movement 1%)

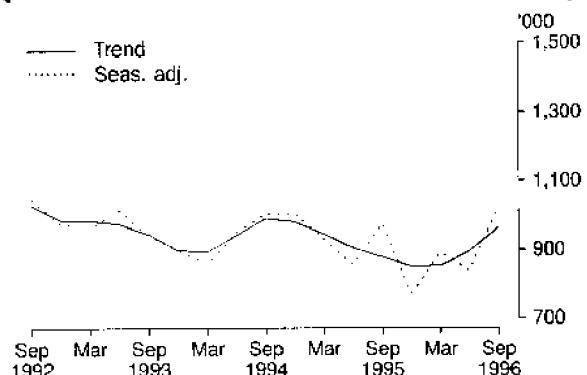


M49 GAS(f) (seasonally adjusted series average movement 3%)

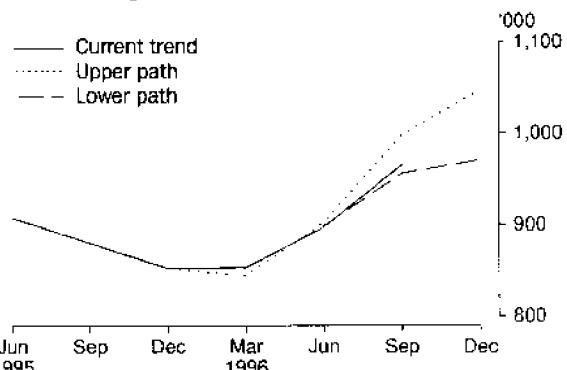
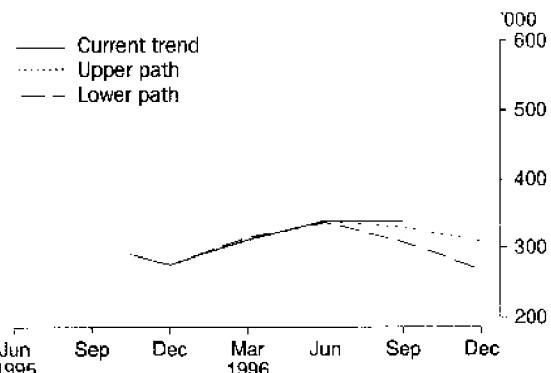
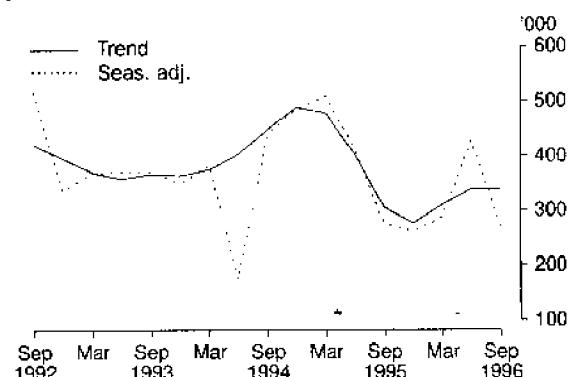
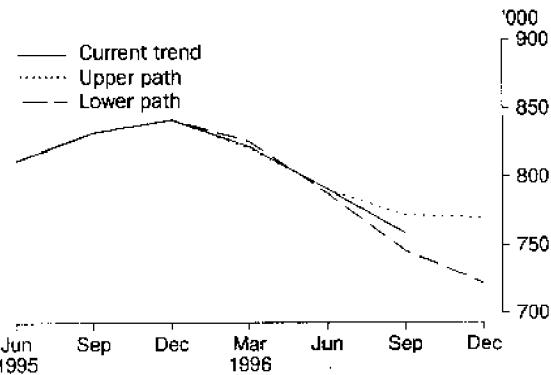
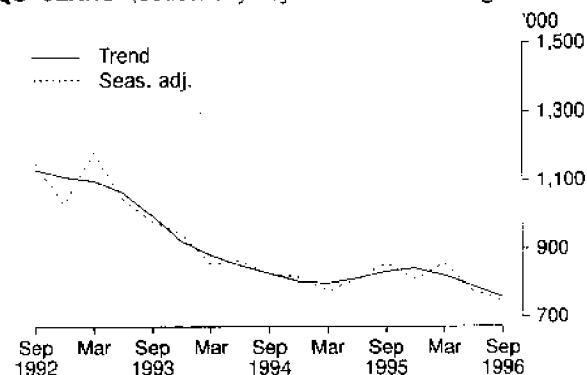
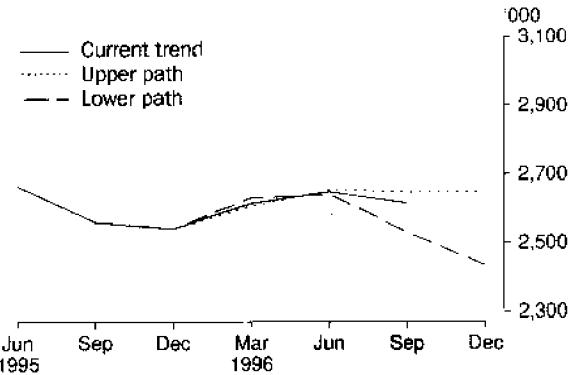
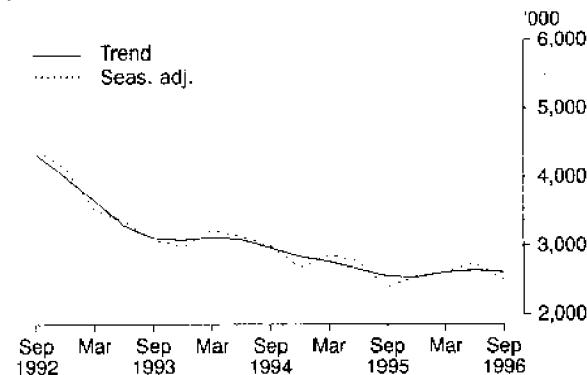


For footnotes see page 23.

Longer term trend(a)

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

Short-term sensitivity analysis

**Q2 WOMEN'S AND GIRLS' LONG TROUSERS** (seasonally adjusted series average movement 14%)**Q3 JEANS** (seasonally adjusted series average movement 6%)**Q4 MEN'S AND BOYS' SHIRTS** (seasonally adjusted series average movement 8%)

For footnotes see page 23.

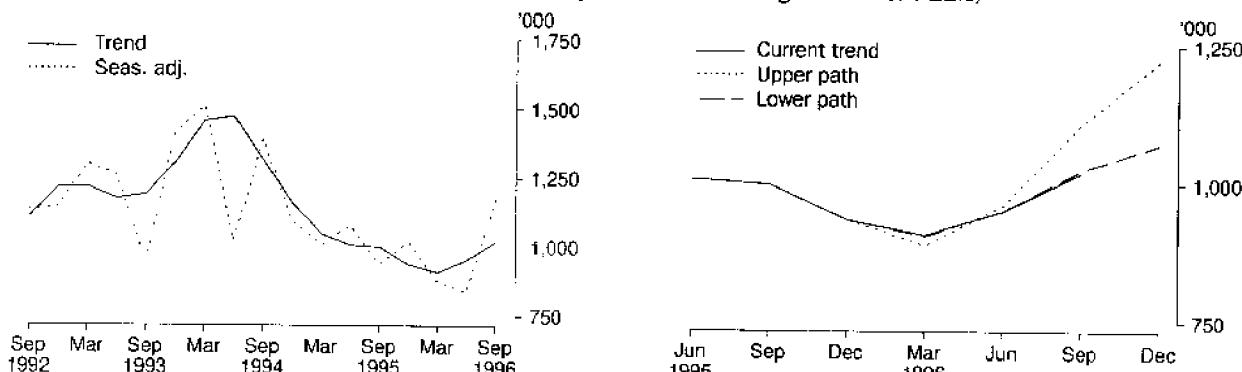
Q

QUARTERLY PRODUCTION *continued*

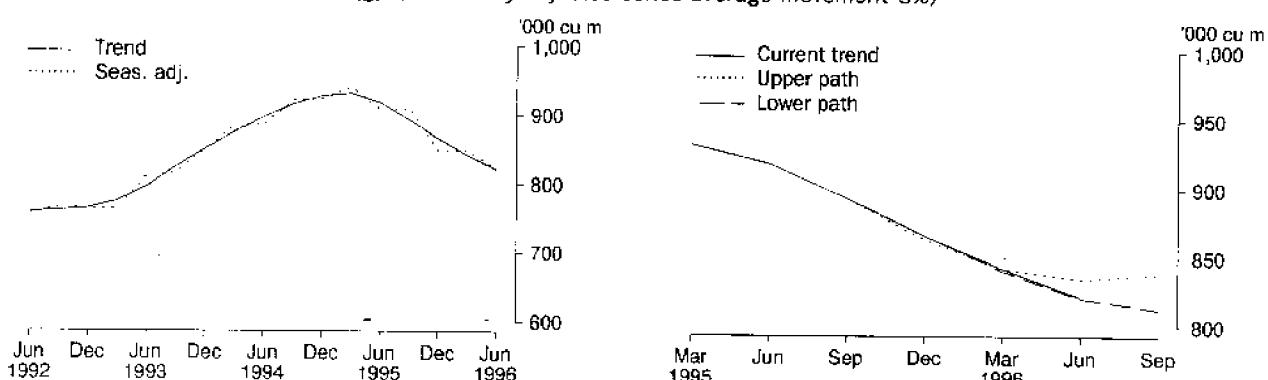
Longer term trend (a)

Short-term sensitivity analysis

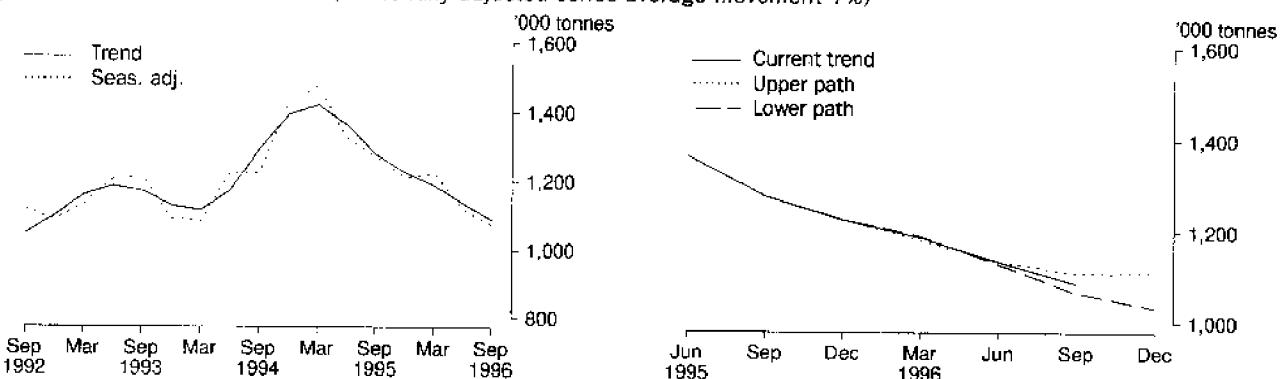
Q5 WOMEN'S SHIRTS AND BLOUSES (seasonally adjusted series average movement 12%)



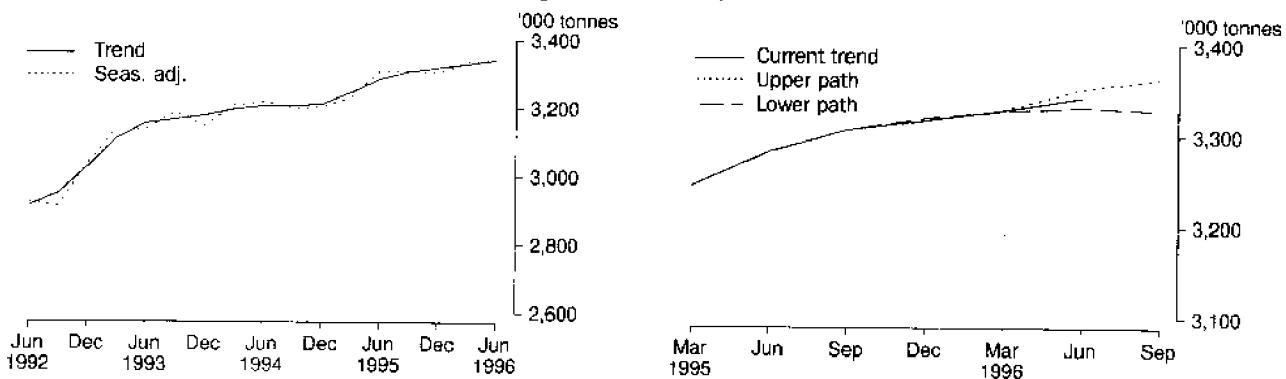
Q6 UNDRESSED SAWN TIMBER(g) (seasonally adjusted series average movement 3%)



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

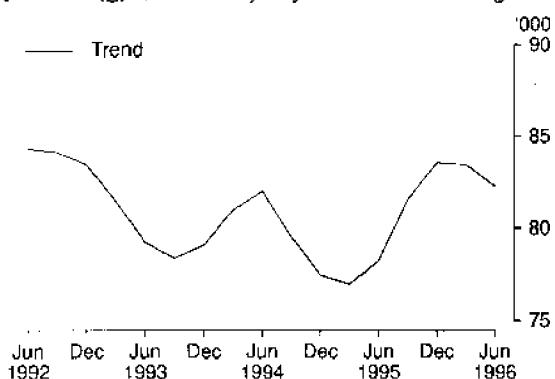


Q8 ALUMINA(g) (seasonally adjusted series average movement 1%)

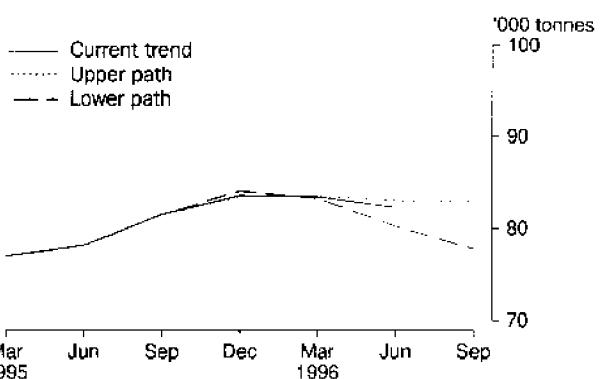
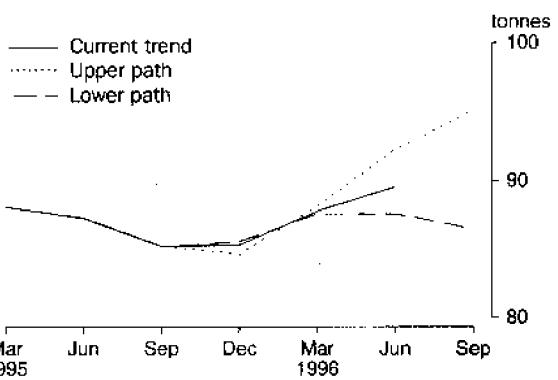
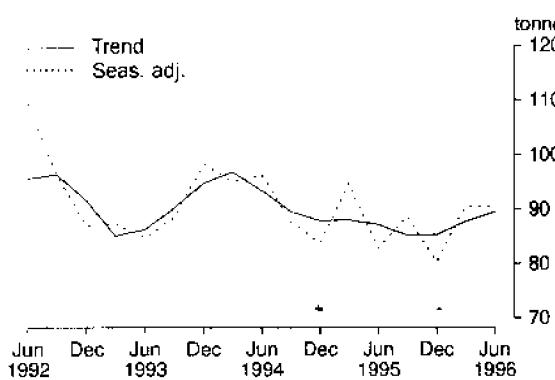
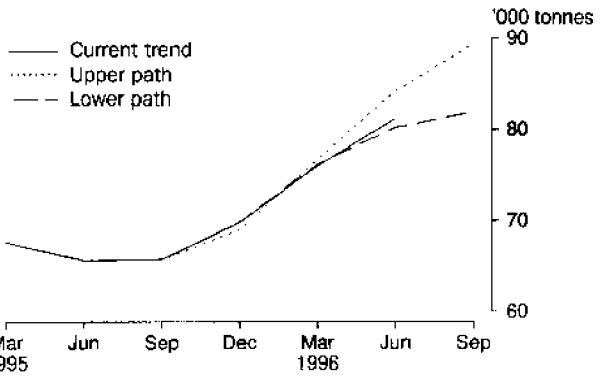
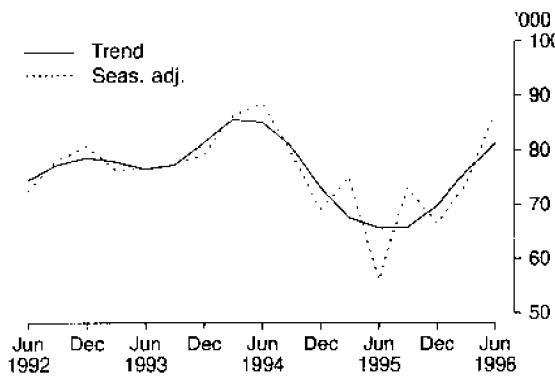
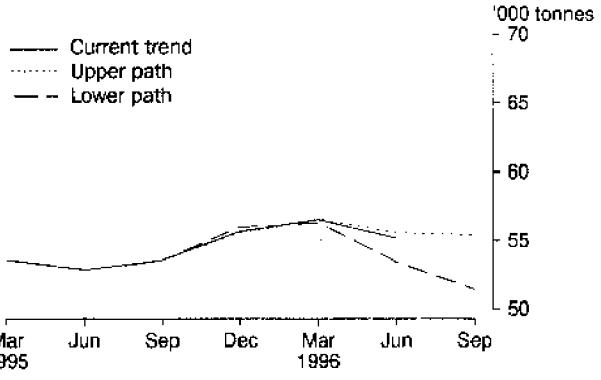
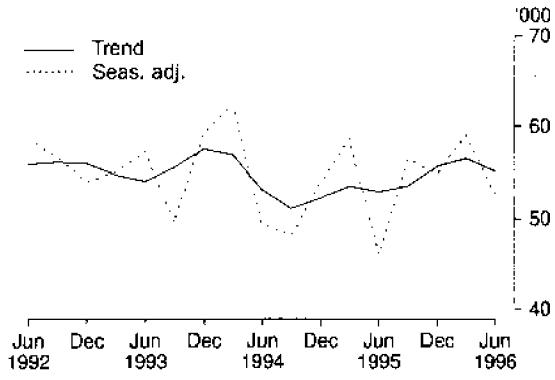


For footnotes see page 23.

Longer term trend (a)

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

Short-term sensitivity analysis

**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.

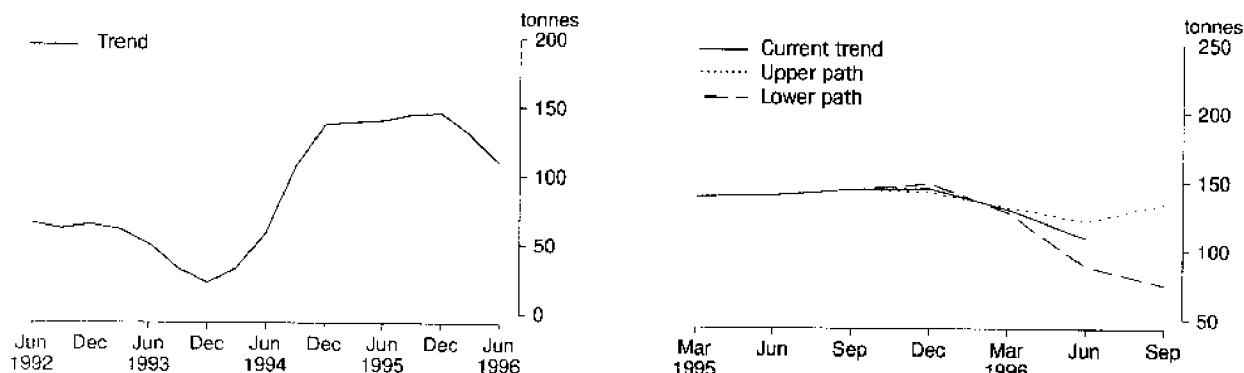
Q

QUARTERLY PRODUCTION *continued*

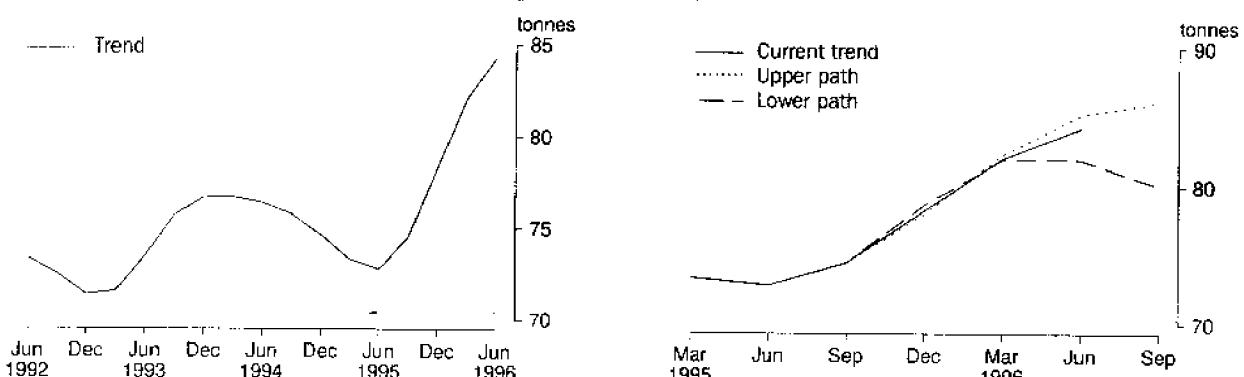
Longer term trend(a)

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.

Percentage
changes between
latest month
shown and—

No.	Item	Series (a)	Unit	1996										prev. month	same month prev. year
				Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
M1	Red meat	Orig.	'000 tonnes	224	227	202	229	r 196	203	196	198	221	11.7	0.3	
		S. adj.	"	224	222	211	207	r 205	204	193	197	200	-1.6	-5.5	
		Trend	"	220	218	214	209	205	201	199	197	196	-0.4	-9.2	
M2	Chicken meat	Orig.	tonnes	38,135	41,647	38,388	38,071	38,189	40,184	r 37,875	r 41,076	43,259	5.3	16.3	
		S. adj.	"	38,965	42,266	37,483	37,996	38,624	38,037	r 40,912	r 41,981	41,169	-1.9	12.7	
		Trend	"	39,406	39,202	38,887	38,700	38,874	39,342	40,008	40,681	41,510	2.0	6.9	
M3	Cheese(b)	Orig. r	"	21,362	19,898	19,805	16,140	12,118	11,783	17,548	28,873	n.y.a.	64.5	5.7	
		S. adj. r	"	21,545	21,006	23,320	22,518	24,036	20,324	21,864	23,798	n.y.a.	8.8	9.0	
		Trend r	"	21,824	22,063	22,240	22,363	22,437	22,462	22,493	22,565	n.y.a.	0.3	1.6	
M4	Butter(b)	Orig. r	"	11,756	11,499	8,793	7,065	8,562	6,186	8,598	16,590	n.y.a.	93.0	63.2	
		S. adj. r	"	12,032	12,270	12,653	13,482	17,107	14,142	13,785	14,090	n.y.a.	2.2	63.5	
		Trend r	"	12,292	12,800	13,371	13,934	14,345	14,573	14,647	14,600	n.y.a.	-0.3	29.3	
M5	Flour of wheat or of meslin	Orig.	'000 tonnes	119	124	111	135	122	128	r 126	132	127	-4.1	15.6	
		S. adj.	"	119	121	122	123	118	130	r 118	131	124	-5.7	9.7	
		Trend	"	120	121	121	122	123	124	125	125	126	0.4	8.7	
M6	Prepared foods from cereals	Orig.	tonnes	8,570	10,431	7,277	8,951	7,758	7,012	8,991	r 8,722	8,713	-0.1	-3.4	
		S. adj.	"	8,776	9,824	7,852	8,330	7,728	7,289	9,506	r 8,294	8,505	2.5	-1.0	
		Trend	"	8,620	8,577	8,451	8,293	8,166	8,165	8,272	8,392	8,590	2.4	2.2	
M7	Biscuits	Orig.	"	11,317	12,978	9,936	12,875	12,742	12,602	12,817	11,984	12,424	3.7	-0.8	
		S. adj.	"	11,172	12,011	11,692	12,007	12,400	11,855	11,922	10,673	11,365	6.5	-5.2	
		Trend	"	11,544	11,653	11,831	11,962	11,973	11,839	11,642	11,433	11,260	-1.5	-6.9	
M8	Chocolate based confectionery	Orig.	"	9,264	9,186	6,499	9,395	9,302	9,852	11,148	9,962	10,433	4.7	-4.0	
		S. adj.	"	8,796	8,836	8,277	8,913	9,366	9,750	9,498	9,735	9,050	-7.0	-8.1	
		Trend	"	8,956	8,786	8,795	8,965	9,196	9,388	9,502	9,550	9,568	0.2	-2.4	
M9	Other confectionery	Orig.	"	5,709	6,518	4,418	6,057	6,605	6,201	6,907	6,822	6,971	2.2	-8.1	
		S. adj.	"	5,952	6,537	5,478	5,993	6,244	5,864	5,891	6,148	6,215	1.1	-10.4	
		Trend	"	5,974	5,972	5,986	5,995	5,981	5,993	6,030	6,069	6,152	1.4	-0.2	
M10	Malt	Orig.	"	49,747	45,992	46,119	48,050	54,107	50,339	r 51,910	50,375	48,508	-3.7	8.5	
		S. adj.	"	47,713	46,229	49,036	43,886	55,918	52,208	r 51,025	52,030	49,971	-4.0	8.3	
		Trend	"	46,279	46,976	48,096	49,406	50,552	51,332	51,754	51,890	51,734	-0.3	11.6	
M11	Beer	Orig.	mil litres	128	147	131	146	120	129	r 136	133	177	33.2	6.5	
		S. adj.	"	135	147	142	149	150	140	r 141	140	153	9.4	3.4	
		Trend	"	140	142	143	145	145	145	144	145	146	0.6	-2.0	
M12	Tobacco and cigarettes(c)	Orig.	tonnes	1,751	1,857	1,629	1,834	1,777	2,255	2,242	1,796	1,838	2.3	29.3	
		S. adj.	"	1,585	1,777	1,951	1,571	1,817	1,758	1,994	1,770	1,980	11.9	23.1	
		Trend	"	1,591	1,651	1,715	1,767	1,803	1,824	1,850	1,880	1,907	1.5	14.0	
M13	Man-made fibre woven fabric	Orig.	'000 sq m	13,044	12,196	9,327	14,094	11,011	12,258	13,061	r 12,598	15,266	21.2	19.3	
		S. adj.	"	12,027	11,160	10,464	12,745	10,544	11,438	12,147	r 12,682	14,557	14.8	16.2	
		Trend	"	11,551	11,385	11,236	11,246	11,442	11,804	12,289	12,832	13,366	4.2	1.2	
M14	Cotton woven fabric	Orig.	"	5,828	4,848	4,394	6,033	5,109	6,692	r 6,003	5,918	5,648	-4.6	-1.6	
		S. adj.	"	5,496	4,114	5,064	5,208	4,713	6,882	r 5,134	5,371	5,415	0.8	-6.7	
		Trend	"	5,598	5,303	5,144	5,148	5,280	5,464	5,566	5,599	5,543	-1.0	-6.1	
M15	Cotton yarn	Orig.	tonnes	3,282	3,381	2,509	3,281	3,527	3,641	3,409	3,848	3,779	-1.8	22.8	
		S. adj.	"	3,248	3,034	2,886	3,071	3,011	3,398	3,020	3,848	3,606	-6.3	15.3	
		Trend	"	3,043	3,028	3,019	3,051	3,122	3,233	3,365	3,495	3,614	3.4	16.6	
M16	Wool yarn	Orig.	"	1,798	1,685	1,445	1,673	1,483	1,646	1,577	1,569	1,847	17.7	-3.5	
		S. adj.	"	1,717	1,760	1,624	1,547	1,525	1,437	1,440	1,464	1,524	4.1	-9.3	
		Trend	"	1,682	1,681	1,644	1,581	1,521	1,485	1,465	1,456	1,461	0.4	-12.1	

For footnotes see page 23.

Percentage
changes between
latest month
shown and-

No.	Item	Series (a)	Unit	1996										prev. month	same month prev. year
				Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
M17	Wool woven fabric	Orig.	'000 sq m	702	608	412	528	536	487	449	566	581	2.8	4.7	
		S. adj.	"	600	539	419	468	604	473	421	633	495	-21.9	-5.1	
		Trend	"	540	522	505	496	498	505	513	522	533	2.0	-5.8	
M18	Textile floor coverings	Orig.	"	4,058	3,855	3,456	3,621	3,249	3,784	3,684	3,791	4,323	14.1	6.6	
		S. adj.	"	3,750	3,757	3,673	3,454	3,427	3,684	3,345	3,650	3,745	2.6	2.5	
		Trend	"	3,673	3,694	3,656	3,583	3,528	3,524	3,547	3,581	3,626	1.3	5.6	
M19	Footwear	Orig.	'000 pairs	1,326	1,339	1,183	1,346	1,089	1,229	1,314	1,248	1,355	8.5	-7.4	
		S. adj.	"	1,225	1,211	1,189	1,230	1,194	1,195	1,195	1,146	1,180	2.9	-11.2	
		Trend	"	1,245	1,230	1,217	1,205	1,196	1,190	1,183	1,176	1,170	-0.5	-11.3	
M21	Newsprint	Orig.	tonnes	40,350	36,111	34,818	40,194	35,515	38,160	39,422	33,716	31,685	-6.0	-12.3	
		S. adj.	"	38,247	36,001	34,046	37,595	37,379	38,449	40,315	35,018	32,976	-5.8	-10.2	
		Trend	"	36,832	36,569	36,657	37,039	37,419	37,499	37,185	36,580	35,829	-2.1	-4.4	
M22	Wood pulp	Orig.	"	83,003	78,760	76,641	90,827	76,614	74,031	75,486	71,242	75,903	6.5	0.1	
		S. adj.	"	80,930	76,902	78,495	87,927	77,345	76,196	78,0106	71,744	81,984	14.3	-1.8	
		Trend	"	81,431	80,958	80,403	79,762	79,254	78,621	77,918	77,497	77,136	-0.5	-8.0	
M23	Unlaminated particle board	Orig.	'000 cu m	73	74	68	73	67	63	62	65	78	18.7	11.9	
		S. adj.	"	73	71	68	65	68	61	58	61	65	7.6	1.8	
		Trend	"	69	69	68	67	65	63	62	61	61	-0.1	-6.8	
M25	Paperboard containers	Orig.	'000 tonnes	90,553	91,749	84,024	88,295	81,107	99,703	94,662	95,312	109,883	15.3	10.8	
		S. adj.	"	n.a.	n.a.	n.a.	n.a.	n.a.							
		Trend	"	n.a.	n.a.	n.a.	n.a.	n.a.							
M26	Automotive gasoline(d)	Orig.	megalitres	1,463	1,529	1,544	1,573	1,565	1,694	1,438	1,464	n.y.a.	1.8	0.8	
		S. adj.	"	1,525	1,527	1,586	1,521	1,583	1,585	1,443	1,495	n.y.a.	3.6	0.9	
		Trend	"	1,529	1,537	1,548	1,553	1,548	1,534	1,518	1,501	n.y.a.	-1.1	-0.8	
M27	Fuel oil(d)	Orig.	"	139	126	127	138	165	194	93	147	n.y.a.	58.6	-36.6	
		S. adj.	"	n.p.	n.p.	n.p.	n.p.	n.p.							
		Trend	"	146	142	143	146	147	144	138	133	n.y.a.	-3.7	-29.7	
M28	Aviation turbine fuel(d)	Orig.	"	398	414	392	378	359	443	369	447	n.y.a.	21.4	11.1	
		S. adj.	"	400	429	422	387	390	456	366	440	n.y.a.	20.4	7.5	
		Trend	"	421	417	412	408	408	409	411	413	n.y.a.	0.4	4.5	
M29	Automotive diesel oil(d)	Orig.	"	980	953	955	1,127	1,082	1,078	895	1,103	n.y.a.	23.1	16.5	
		S. adj.	"	1,038	991	986	1,094	1,110	1,029	884	1,127	n.y.a.	27.5	16.4	
		Trend	"	1,027	1,033	1,036	1,038	1,038	1,037	1,034	1,035	n.y.a.	0.1	5.6	
M30	Plastics in primary forms	Orig.	'000 tonnes	102	108	100	113	81	100	108	100	96	-3.9	-10.7	
		S. adj.	"	105	107	100	112	88	88	107	96	86	-9.6	-11.8	
		Trend	"	104	104	103	101	99	97	95	93	92	-1.4	-7.8	
M31	Rigid PVC tubes, pipes and hoses	Orig.	tonnes	8,753	9,229	7,599	9,608	8,780	9,439	8,944	6,847	7,186	5.0	1.8	
		S. adj.	"	7,661	8,804	8,707	7,990	8,444	8,021	8,392	7,233	7,281	0.7	-1.0	
		Trend	"	7,845	8,170	8,400	8,449	8,315	8,103	7,880	7,652	7,465	-2.4	8.0	
M32	Polyethylene bottles up to two litres	Orig.	million	162	173	136	151	134	130	147	158	160	1.6	-0.4	
		S. adj.	"	n.a.	n.a.	n.a.	n.a.	n.a.							
		Trend	"	n.a.	n.a.	n.a.	n.a.	n.a.							
M33	Paint	Orig.	'000 litres	16,714	17,602	13,947	16,119	14,627	15,253	15,662	15,649	18,331	17.1	27.4	
		S. adj.	"	16,684	16,119	15,299	15,218	15,907	14,858	15,281	15,525	17,103	10.2	25.0	
		Trend	"	15,798	15,914	15,779	15,527	15,365	15,390	15,558	15,801	16,093	1.9	11.9	
M34	Superphosphates	Orig.	'000 tonnes	171	161	156	174	101	85	45	103	187	81.7	12.2	
		S. adj. r	"	128	113	133	164	148	158	96	193	178	-7.9	5.5	
		Trend r	"	135	135	136	140	144	149	154	160	166	3.3	9.2	

For footnotes see page 23.

*Percentage
changes between
latest month
shown and-*

No.	Item	Series (a)	Unit	1996										prev. month	same month prev. year
				Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.			
M35	Portland cement	Orig.	'000 tonnes	533	579	491	543	559	564	582	561	566	0.9	2.1	
		S. adj.	"	548	560	533	512	542	535	529	562	537	-4.5	0.0	
		Trend	"	536	541	541	536	534	535	538	541	545	0.8	4.5	
M36	Clay bricks	Orig.	million	108	123	116	125	117	126	128	126	137	9.0	0.9	
		S. adj.	"	109	116	118	113	116	116	119	125	126	0.6	-3.9	
		Trend	"	114	113	114	115	116	118	120	122	124	1.6	-1.8	
M37	Ready mixed concrete	Orig.	'000 cu m	1,238	1,288	1,104	1,307	1,157	1,319	1,320	1,272	1,438	13.1	11.7	
		S. adj.	"	1,247	1,242	1,184	1,173	1,193	1,229	1,214	1,280	1,286	0.5	5.9	
		Trend	"	1,208	1,208	1,204	1,201	1,204	1,217	1,235	1,254	1,274	1.6	4.9	
M38	Basic iron, spiegeleisen & sponge iron(e)	Orig.	'000 tonnes	611	636	614	620	620	678	627	611	578	-5.4	-9.7	
		S. adj.	"	653	639	621	619	624	663	604	598	561	-6.1	-8.7	
		Trend	"	639	637	635	632	628	621	611	600	589	-1.9	-5.9	
M39	Blooms and slabs of iron or steel(e)	Orig.	"	618	670	642	655	658	696	666	633	626	-1.1	-9.2	
		S. adj.	"	669	679	659	664	670	694	648	611	593	-3.0	-9.3	
		Trend	"	664	668	672	673	668	659	645	630	616	-2.3	-6.5	
M40	Insulated wire	Orig.	tonnes	6,663	6,549	5,457	6,705	6,037	6,604	6,426	5,801	6,143	5.9	-5.4	
		S. adj.	"	6,390	5,827	5,734	6,035	6,310	6,216	6,191	5,264	5,490	4.3	-5.6	
		Trend	"	5,976	6,005	6,053	6,087	6,075	6,012	5,905	5,771	5,624	-2.6	-7.7	
M41	Cars and station wagons	Orig.	number	26,787	26,050	22,629	30,293	25,310	30,701	25,747	28,863	29,916	3.6	22.0	
		S. adj.	"	25,540	25,433	25,924	25,761	25,720	27,208	22,334	26,777	25,848	-3.5	15.1	
		Trend	"	25,912	26,027	25,913	25,718	25,609	25,541	25,484	25,469	25,479	0.0	2.9	
M42	Vehicles for goods and materials	Orig.	"	2,134	2,430	2,168	2,864	2,419	2,830	2,714	2,465	2,397	-2.8	19.9	
		S. adj.	"	2,081	2,234	2,283	2,379	2,478	2,572	2,437	2,432	2,002	-17.7	12.9	
		Trend	"	2,105	2,211	2,318	2,401	2,446	2,447	2,413	2,355	2,286	-2.9	17.2	
M43	Telephones	Orig.	'000	66	91	79	108	76	101	119	120	115	-3.4	-40.2	
		S. adj.	"	n.a.	n.a.	n.a.									
		Trend	"	n.a.	n.a.	n.a.									
M44	Domestic refrigerators	Orig.	number	37,107	33,988	20,441	36,299	27,261	35,700	29,593	37,143	40,414	8.8	2.8	
		S. adj.	"	33,652	31,532	24,079	33,366	32,761	38,557	31,683	40,168	34,102	-15.1	-4.3	
		Trend	"	32,726	31,406	30,924	31,448	32,810	34,364	35,581	36,426	37,135	1.9	-1.3	
M45	Water heaters	Orig.	"	44,569	50,738	38,653	59,112	50,558	60,777	56,070	50,826	60,004	18.1	9.2	
		S. adj.	"	44,125	45,588	46,632	51,014	49,603	55,091	51,111	47,702	52,601	10.3	7.7	
		Trend	"	45,849	46,199	47,472	49,133	50,490	51,188	51,463	51,513	51,410	-0.2	1.7	
M46	Domestic clothes washing machines	Orig.	"	23,619	20,595	15,306	25,940	27,380	31,489	26,685	21,682	n.p.	-18.7	-31.4	
		S. adj.	"	23,204	20,537	17,435	25,089	27,200	27,587	21,813	19,629	n.p.	-10.0	-28.1	
		Trend	"	21,606	21,654	22,404	23,378	24,068	24,209	23,853	23,358	n.p.	-2.1	-13.0	
M47	Electric motors	Orig.	'000	282	204	185	267	213	228	254	214	248	15.7	10.2	
		S. adj.	"	259	191	208	234	221	223	242	203	214	5.3	5.5	
		Trend	"	239	230	222	219	221	223	223	222	218	-1.7	-13.7	
M48	Electricity	Orig.	mil k Wh	13,354	14,043	13,342	14,414	14,366	15,343	14,668	13,730	14,232	3.7	3.8	
		S. adj.	"	13,948	14,116	14,169	13,925	13,950	14,101	13,602	13,911	14,271	2.6	2.7	
		Trend	"	13,991	14,033	14,042	14,011	13,966	13,936	13,932	13,951	13,986	0.3	1.2	
M49	Gas(f)	Orig.	terajoules	43,968	47,210	48,910	54,562	58,615	65,895	62,709	55,103	50,582	-8.2	-6.1	
		S. adj.	"	52,717	52,385	52,715	50,485	50,295	53,308	52,420	50,874	49,609	-2.5	-6.9	
		Trend	"	52,291	52,134	51,995	51,867	51,716	51,589	51,411	51,155	50,856	-0.6	-0.8	

For footnotes see page 23.

Percentage
changes between
latest quarter
shown and—

No.	Item	Series (a)	Unit	1994			1995			1996			same quarter	
				Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	prev. 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	22.4	5.1
		Trend	"	991	982	947	907	880	852	854	897	966	7.6	9.7
Q2	Women's and girls' long trousers	Orig.	"	407	380	628	443	252	202	359	458	247	-46.0	-2.1
		S. adj.	"	440	486	510	414	275	261	288	429	271	-36.9	-1.7
		Trend	"	449	489	478	403	305	277	312	340	338	-0.5	10.9
Q3	Jeans	Orig.	"	941	770	641	887	979	764	706	851	852	0.2	-12.9
		S. adj.	"	826	817	777	813	857	810	858	779	746	-4.2	-13.0
		Trend	"	828	806	799	812	833	842	823	791	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	17.6	4.7
		S. adj.	"	2,995	2,688	2,859	2,772	2,404	2,557	2,632	2,741	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	-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	124.3	25.7
		S. adj.	"	1,388	1,094	1,009	1,076	935	1,017	874	835	1,177	40.9	25.8
		Trend	"	1,314	1,158	1,047	1,006	998	935	907	951	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.	5.1	-9.3
		S. adj.	"	921	924	940	907	909	849	848	824	n.y.a.	-2.9	-9.2
		Trend	"	916	928	932	918	893	866	842	821	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	0.0	-15.4
		S. adj.	"	1,223	1,424	1,477	1,324	1,269	1,211	1,224	1,120	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	-4.3	-14.9
Q8	Alumina(g)	Orig.	"	3,235	3,203	3,203	3,299	3,348	3,297	3,311	3,336	n.y.a.	0.8	1.1
		S. adj.	"	3,197	3,204	3,232	3,308	3,307	3,302	3,337	3,345	n.y.a.	0.2	1.1
		Trend	"	3,204	3,210	3,245	3,284	3,307	3,317	3,329	3,343	n.y.a.	0.4	1.8
Q9	Zinc(g)	Orig.	"	82	78	72	81	82	85	81	82	n.y.a.	1.2	1.2
		S. adj.	"	n.p.	n.p.	n.p.								
		Trend	"	80	77	77	78	82	84	83	82	n.y.a.	-1.4	5.2
Q10	Silver(g)	Orig.	tonnes	88	79	93	89	89	75	90	97	n.y.a.	7.8	9.0
		S. adj.	"	88	84	95	83	89	80	91	90	n.y.a.	-0.1	9.2
		Trend	"	90	88	88	87	85	85	88	90	n.y.a.	2.0	2.7
Q11	Copper(g)	Orig.	'000 tonnes	87	68	71	55	80	65	70	85	n.y.a.	21.4	54.5
		S. adj.	"	80	69	75	56	73	67	74	87	n.y.a.	17.4	54.5
		Trend	"	81	73	68	66	66	70	76	81	n.y.a.	6.8	23.8
Q12	Lead(g)	Orig.	"	49	55	53	49	57	56	54	56	n.y.a.	3.7	14.3
		S. adj.	"	48	54	59	46	56	55	59	53	n.y.a.	-10.7	14.6
		Trend	"	51	52	54	53	54	56	57	55	n.y.a.	-2.4	4.3
Q13	Tin(g)	Orig.	tonnes	75	135	180	65	165	160	90	135	n.y.a.	50.0	107.7
		S. adj.	"	n.p.	n.p.	n.p.								
		Trend	"	106	136	138	140	144	145	130	109	n.y.a.	-16.1	-22.0
Q14	Gold(g)	Orig.	"	78	71	74	74	75	75	85	83	n.y.a.	-1.7	13.0
		S. adj.	"	n.p.	n.p.	n.p.								
		Trend	"	76	75	73	73	74	78	82	84	n.y.a.	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.

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

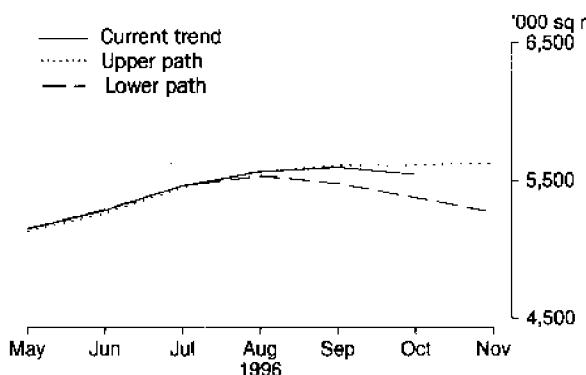
M14 COTTON WOVEN FABRIC TREND SERIES ('000 sq m)

WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:

		1 TREND as PUBLISHED	2 <i>i.e. the same as Oct 1996</i>	3 <i>i.e. rises by 9%</i>	4 <i>i.e. falls by 9% for Oct and Nov</i>
1996		5 415	5 914	4 916	5 737
August	5 566	5 556	5 578	5 533	5 570
September	5 599	5 544	5 618	5 470	5 592
October	5 543	5 494	5 633	5 355	5 584
November (new)	—	5 448	5 658	5 238	5 584

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



The October 1996 trend estimate of 5,543 shown above can be compared with the 'Lower path' and 'Upper path' published here last month of 5,287 and 5,727 (respectively).

EXPLANATORY NOTES

INTRODUCTION

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

SCOPE AND COVERAGE

2 Data presented in this publication are collected from a number of different sources. The prime source is the ABS surveys of manufacturing production. Data are also obtained from surveys undertaken by the Department of Primary Industries and Energy, 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.

EXPLANATORY NOTES *continued*

SEASONALLY ADJUSTED AND TREND ESTIMATES

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

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

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

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

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

RELATED PUBLICATIONS

16 Other ABS publications which may be of interest are

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

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

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

UNPUBLISHED STATISTICS

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

- domestic refrigerators
- domestic deep-freezers
- water heaters
- clothes drying machines
- domestic cooking stoves, ovens and ranges
- space heaters
- mowers
- air conditioners
- audio cassette tapes
- audio compact discs
- liquid supply or production meters
- brass bars, rods and sections
- strip for retreading rubber tyres
- electricity
- gas
- semi-trailers
- mineral waters and aerated waters
- starches, wheat gluten and glucose
- 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 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 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.



For more information . . .

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

ABS Products and Services

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