



July 1996

EMBARGOED UNTIL 11:30 AM MON 2 SEPTEMBER 1996

Manufacturing Production

Australia

Statistics

NOTES

FORTHCOMING ISSUES	ISSUE	RELEASE DATE
	August 1996	2 October 1996
	September 1996	31 October 1996
	October 1996	3 December 1996

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.

Most series' trend and seasonally adjusted estimates of production (and their average movements) have been revised, as a result of new seasonal factors being calculated (please refer to paragraphs 10 to 13 of the Explanatory Notes, on page 26).

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

A number of series have had revisions applied to the original series, as a result of more accurate reporting and/or increased coverage. The series particularly affected are 'M3 Cheese', 'M7 Biscuits' and 'M8 Chocolate based confectionery'. In addition, revised data and graphs for the series 'M17 Wool woven fabric' have been inserted; they were last published in the April 1996 issue.

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, 31 showed rising production trends, 19 showed falling trends while 8 were relatively stable.

PUBLISHED PRODUCTION TREND:

	Indicators available	Rising	Falling	Stable
May 1996 issue	57	18	21	18
June 1996 issue	57	22	23	12
July 1996 issue	58	31	19	8

SERIES TRENDS

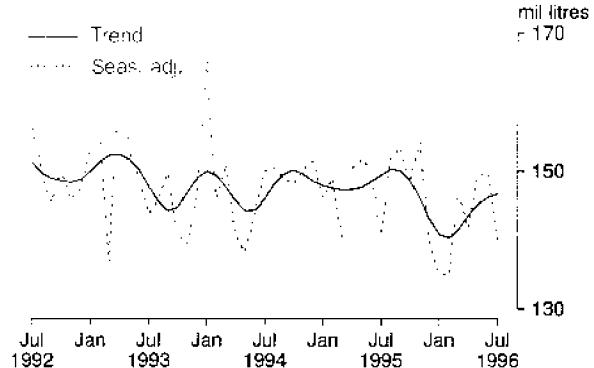
Two of the more notable trends were Beer and Ready mixed concrete production.

Production of beer has been rising over the last five months, after falling every month from September 1995, but will require a rise in the seasonally adjusted series of over 5% to continue this trend (the average movement for this series is 5%).

Ready mixed concrete production was flat in July 1996 (falling 0.1%) having fallen every month from March 1996. The trend will rise in August 1996, unless the seasonally adjusted series falls by more than 2% (the average movement for this series is 4%).

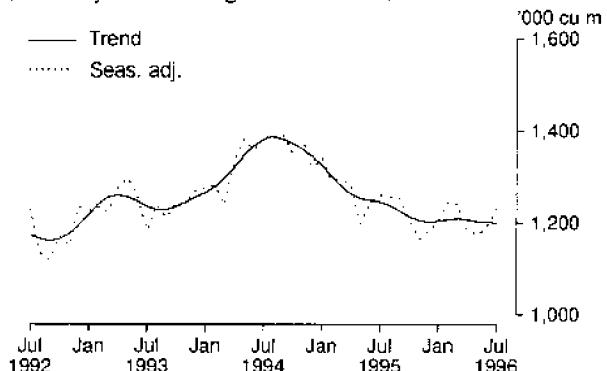
M11 BEER

(Seas. adj. series average movement 5%)



M37 READY MIXED CONCRETE

(Seas. adj. series average movement 4%)

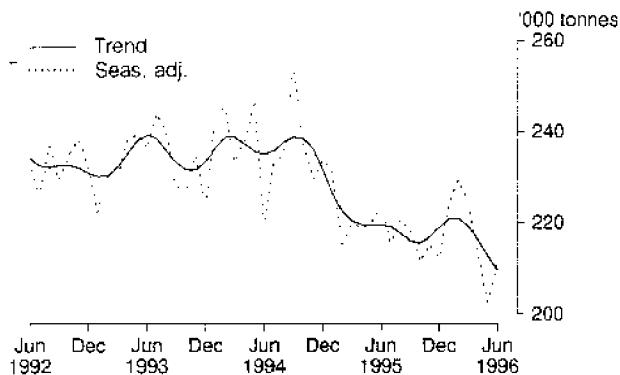


M

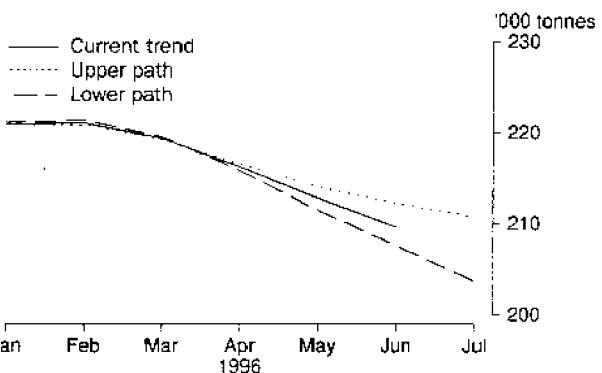
MONTHLY PRODUCTION

Longer term trend(a)

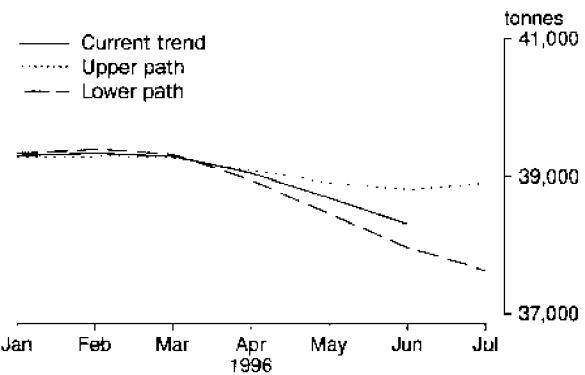
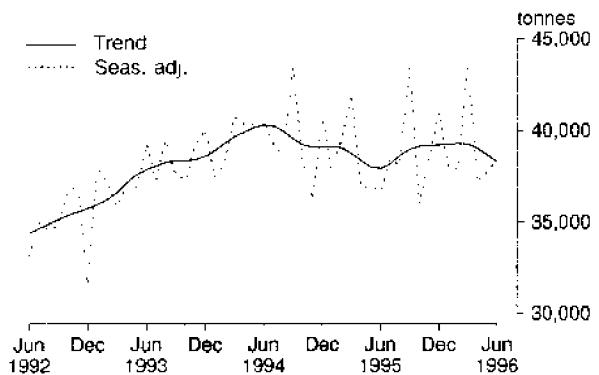
M1 RED MEAT (seasonally adjusted series average movement 4%)



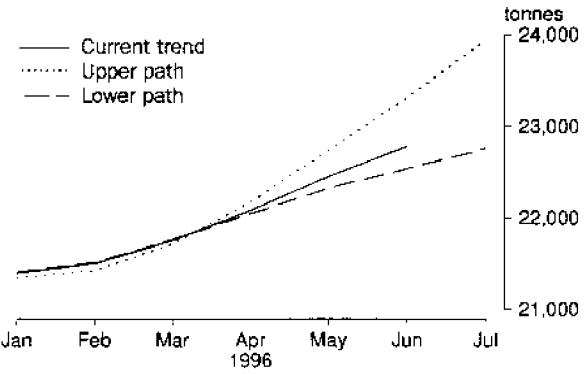
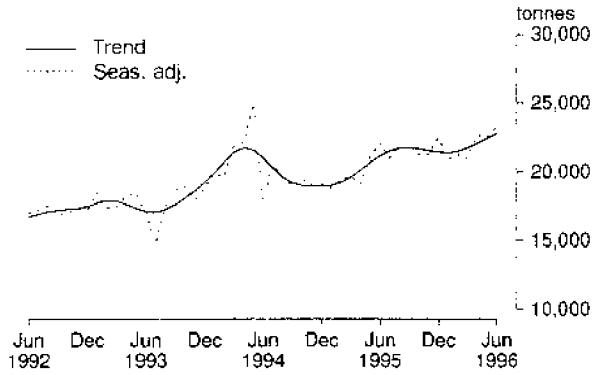
Short-term sensitivity analysis



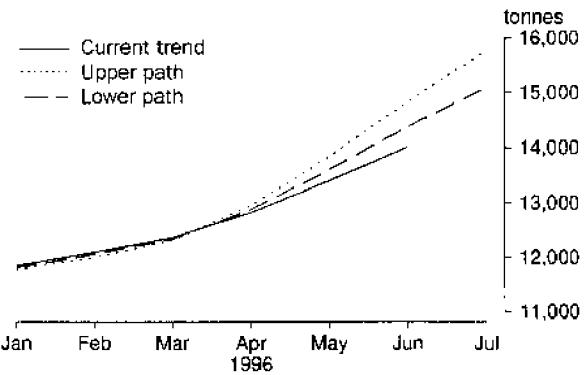
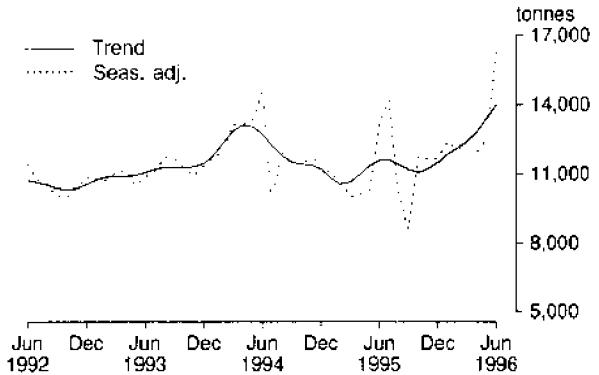
M2 CHICKEN MEAT (seasonally adjusted series average movement 4%)



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

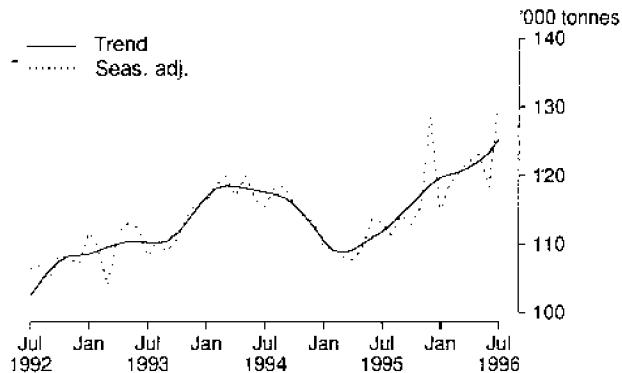


M4 BUTTER(b) (seasonally adjusted series average movement 7%)

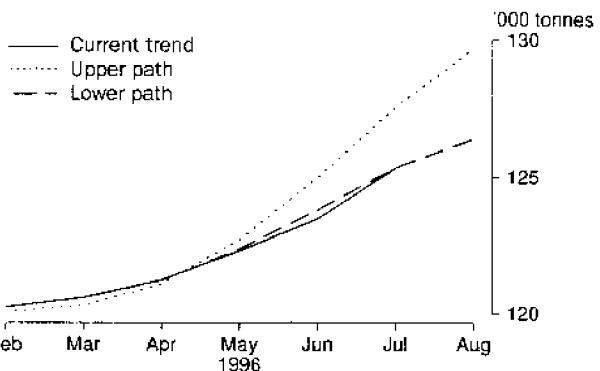
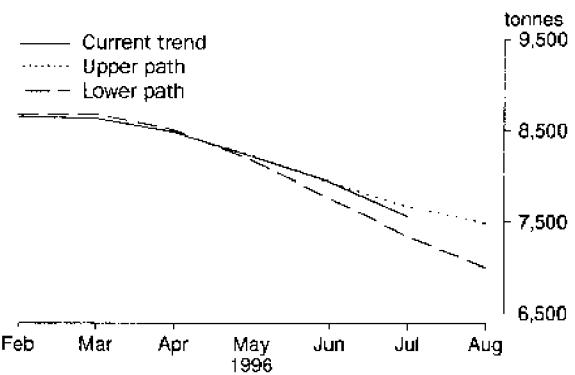
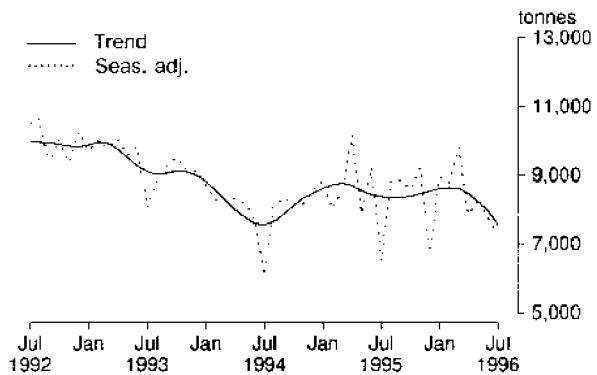
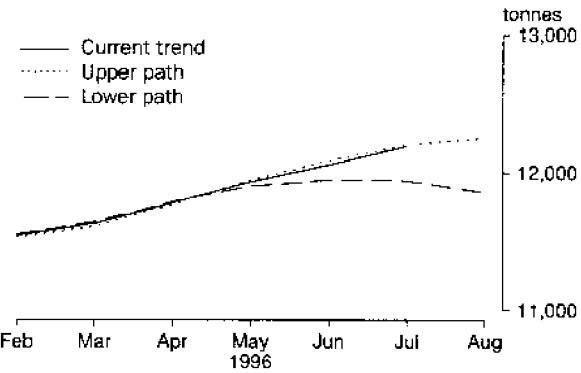
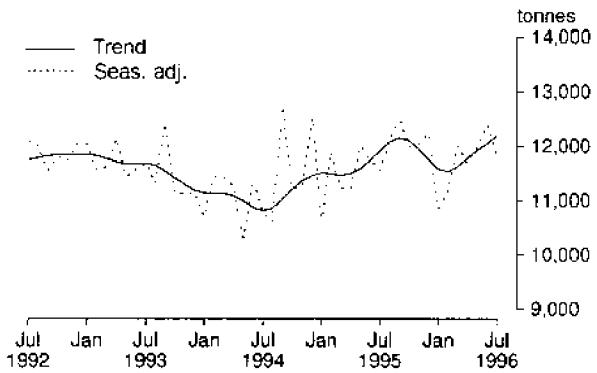
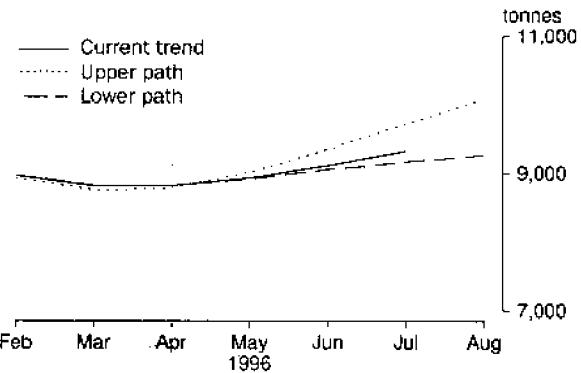
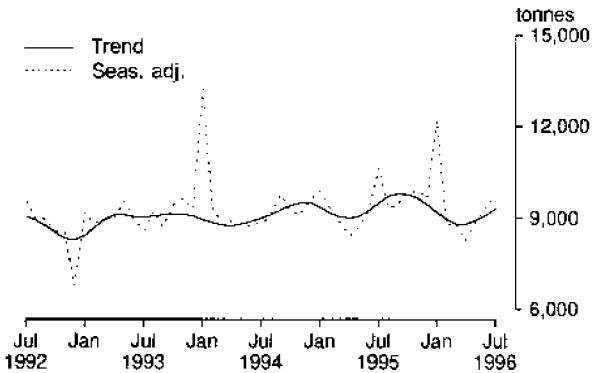


For footnotes see page 23.

Longer term trend(a)

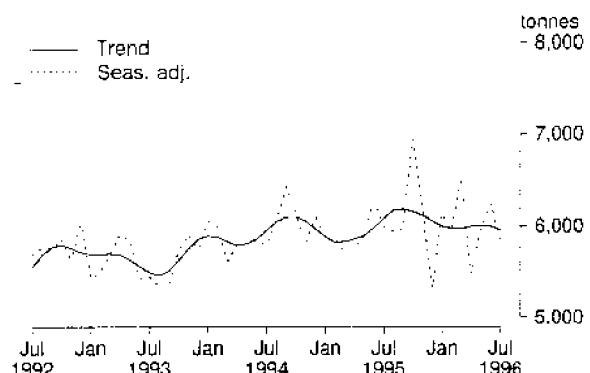
M5 FLOUR OF WHEAT OR OF MESLIN (seasonally adjusted series average movement 3%)

Short-term sensitivity analysis

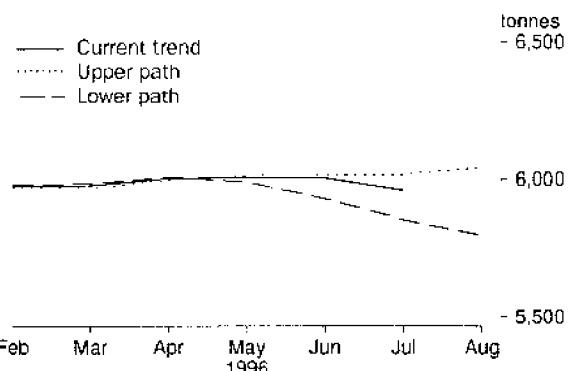
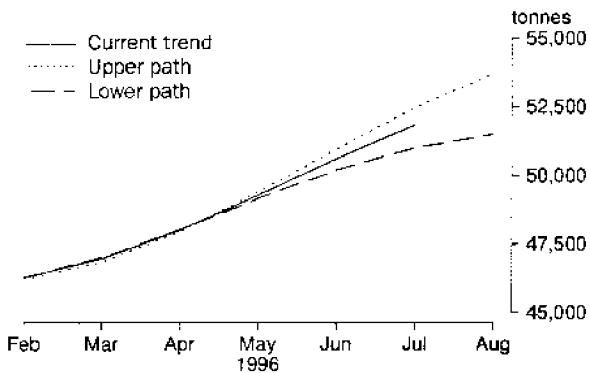
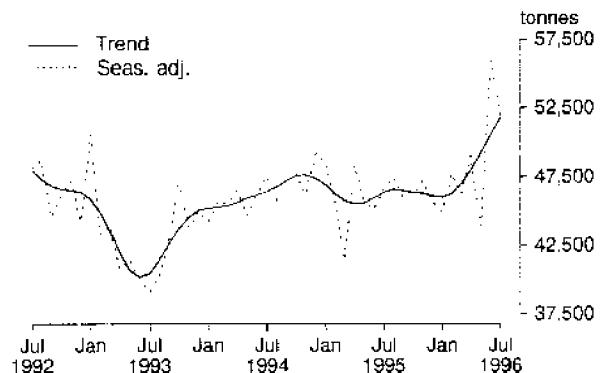
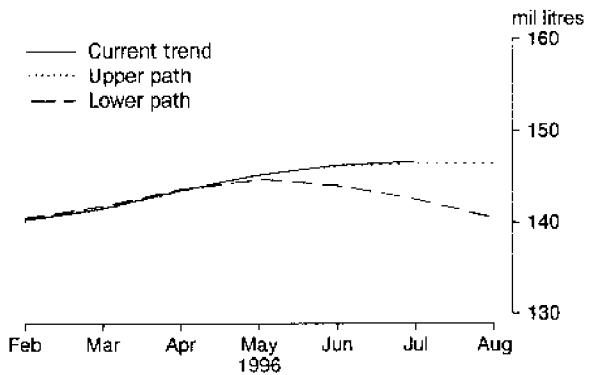
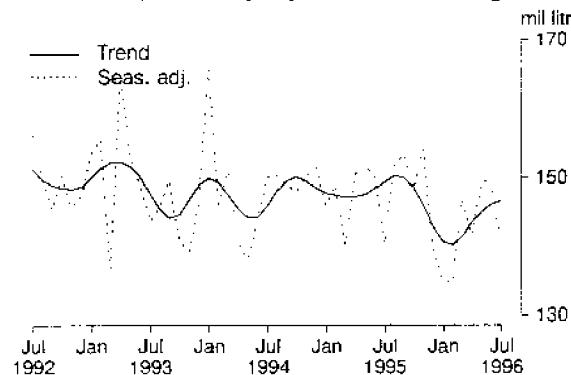
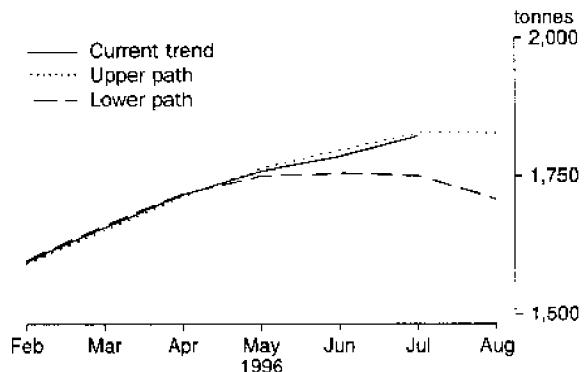
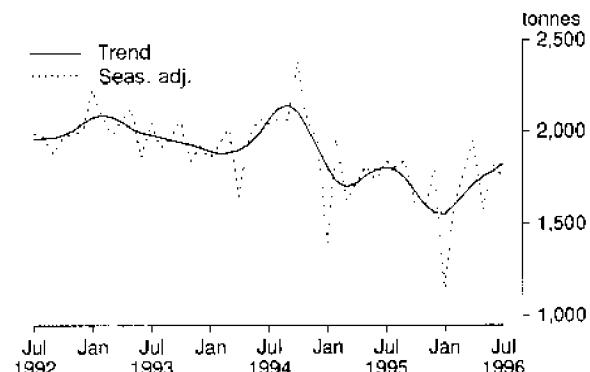
**M6 PREPARED FOODS FROM CEREALS** (seasonally adjusted series average movement 8%)**M7 BISCUITS** (seasonally adjusted series average movement 4%)**M8 CHOCOLATE BASED CONFECTIONERY** (seasonally adjusted series average movement 7%)

For footnotes see page 23.

Longer term trend (a)

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

Short-term sensitivity analysis

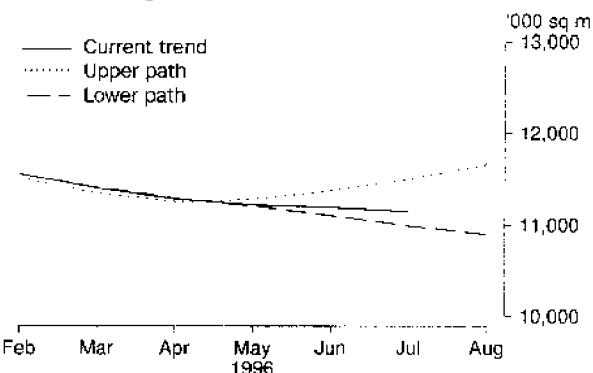
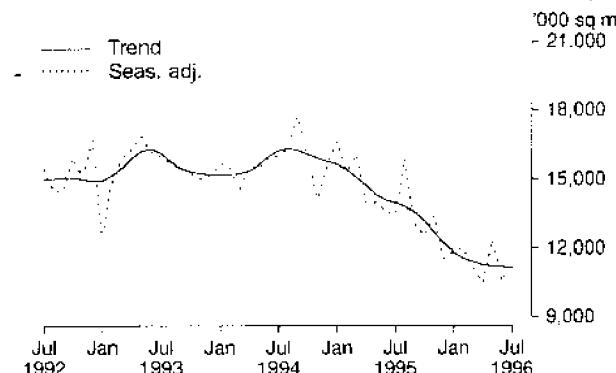
**M10 MALT** (seasonally adjusted series average movement 5%)**M11 BEER** (seasonally adjusted series average movement 5%)**M12 TOBACCO AND CIGARETTES(c)** (seasonally adjusted series average movement 8%)

For footnotes see page 23.

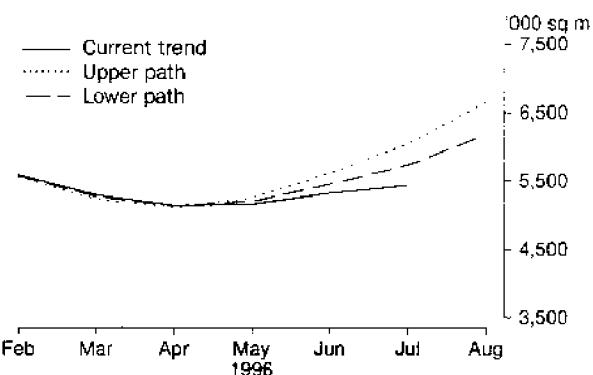
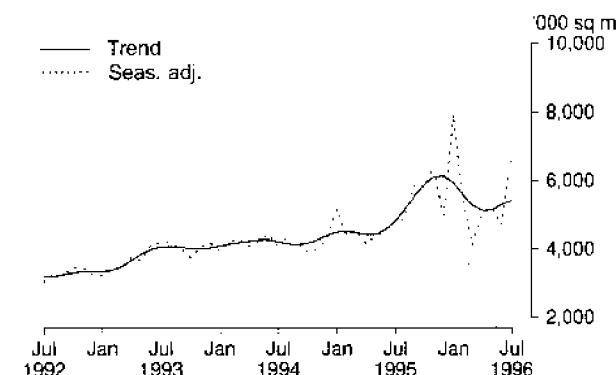
Longer term trend(a)

Short-term sensitivity analysis

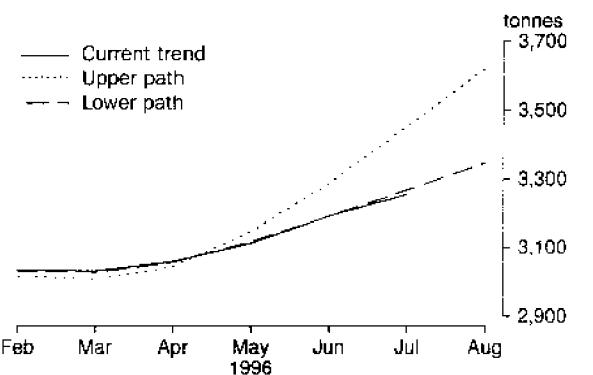
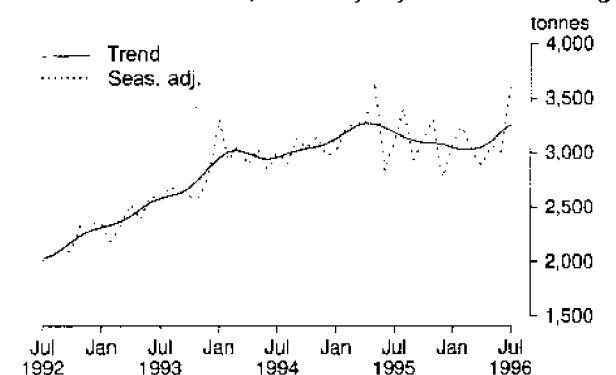
M13 MAN-MADE FIBRE WOVEN FABRIC (seasonally adjusted series average movement 8%)



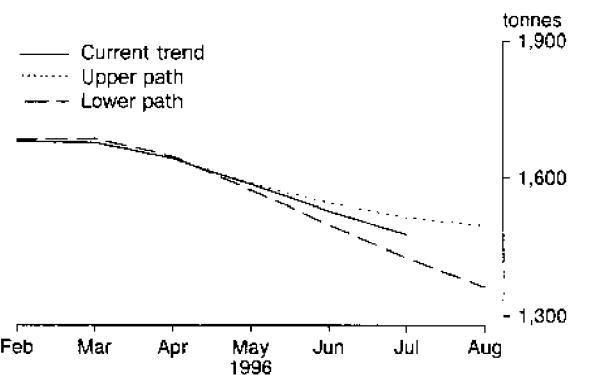
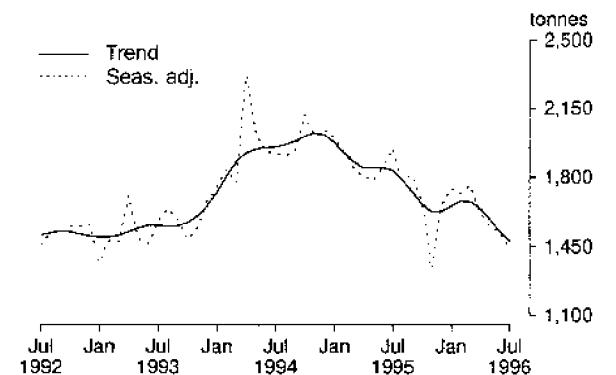
M14 COTTON WOVEN FABRIC (seasonally adjusted series average movement 9%)



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

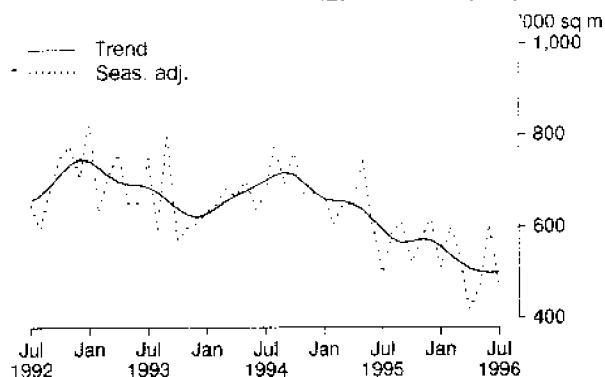


M16 WOOL YARN (seasonally adjusted series average movement 6%)

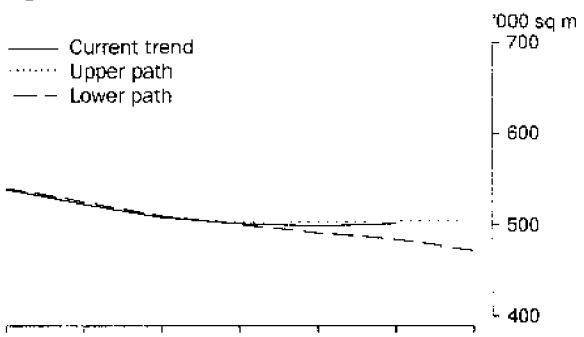
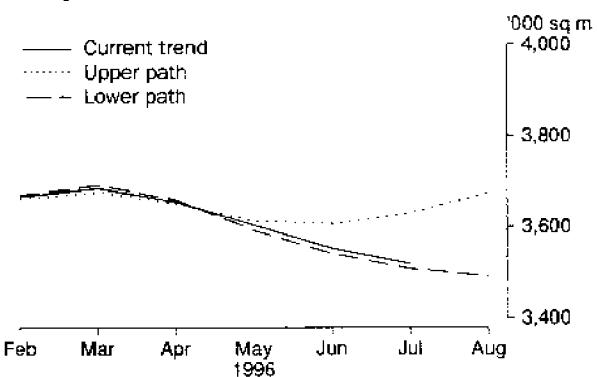
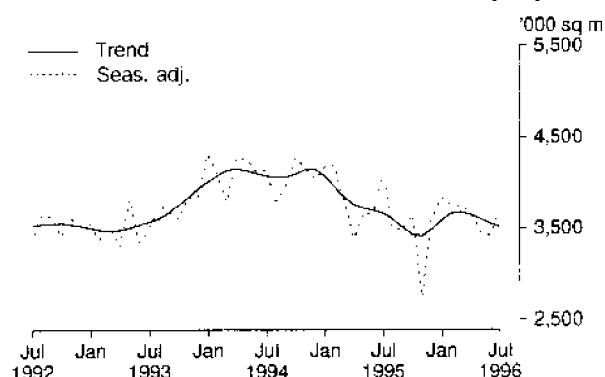
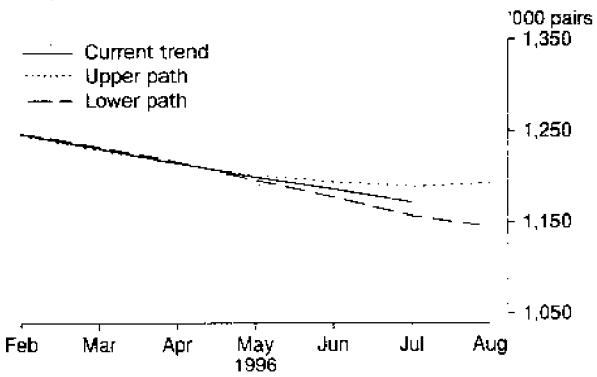
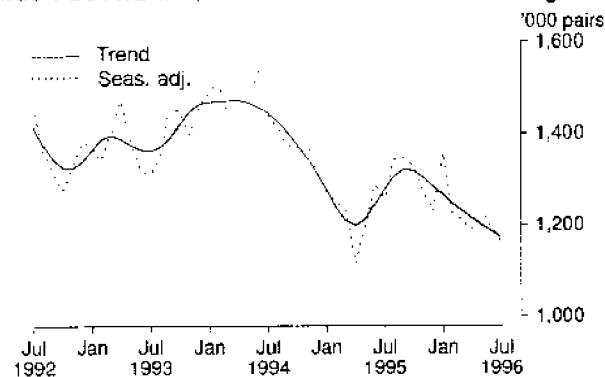
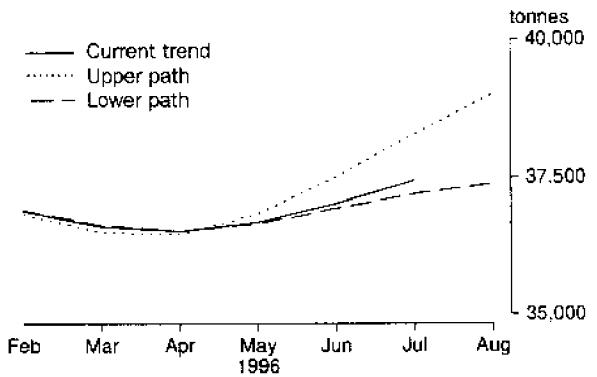
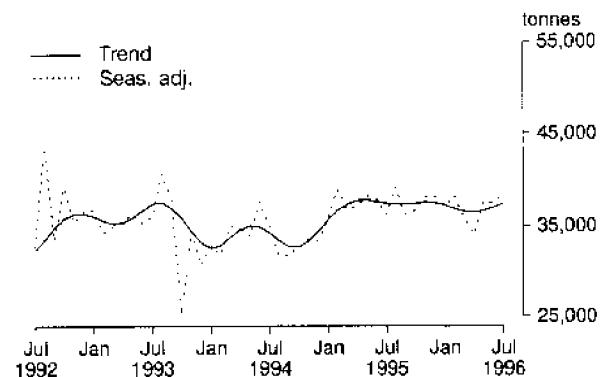


For footnotes see page 23.

Longer term trend (a)

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

Short-term sensitivity analysis

**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%)**

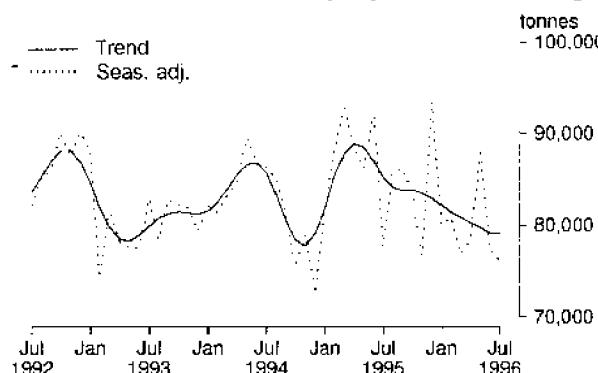
For footnotes see page 23.

M

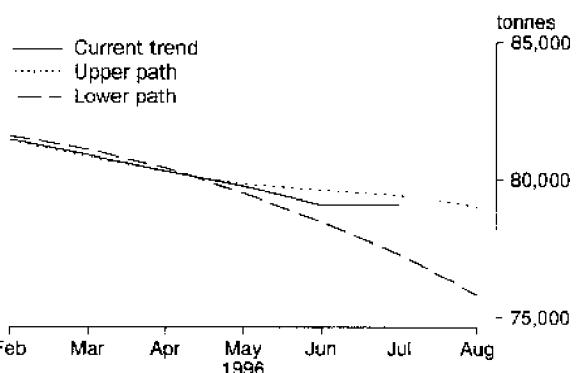
MONTHLY PRODUCTION *continued*

Longer term trend (a)

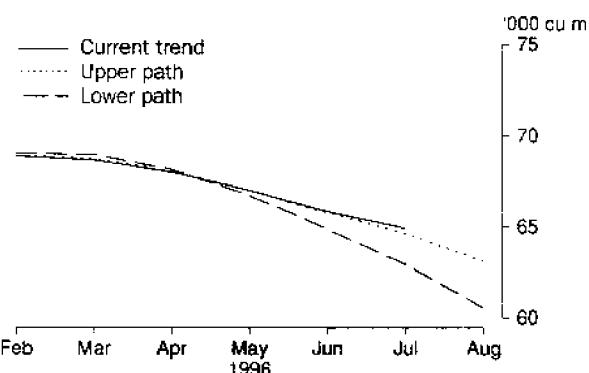
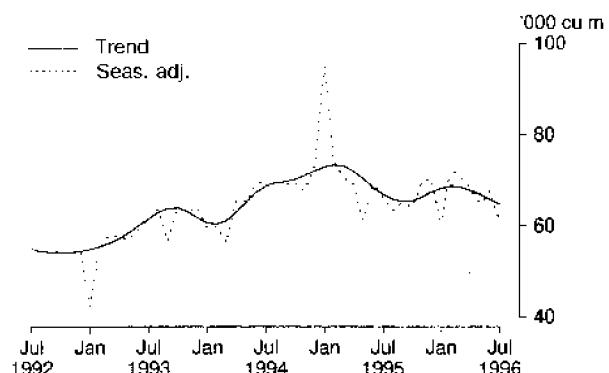
M22 WOOD PULP (seasonally adjusted series average movement 4%)



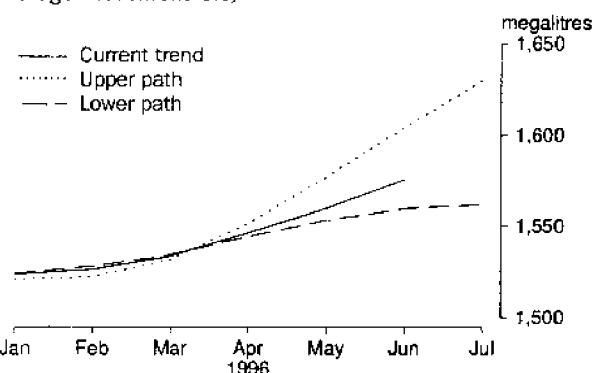
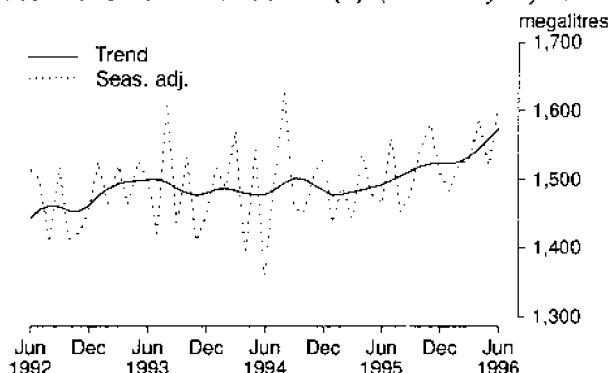
Short-term sensitivity analysis



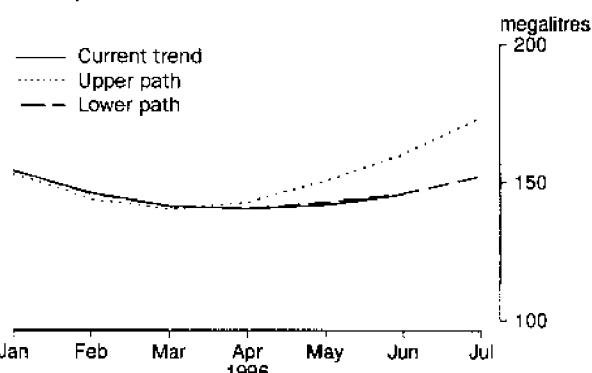
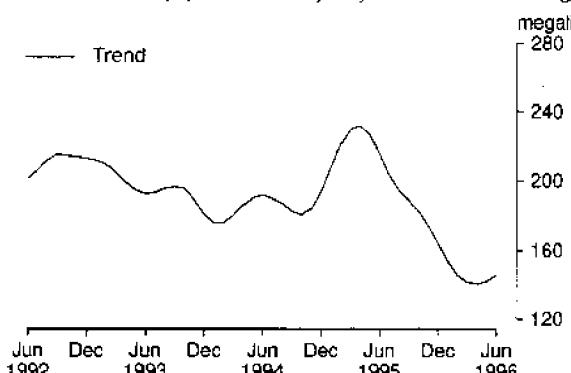
M23 UNLAMINATED PARTICLE BOARD (seasonally adjusted series average movement 5%)



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



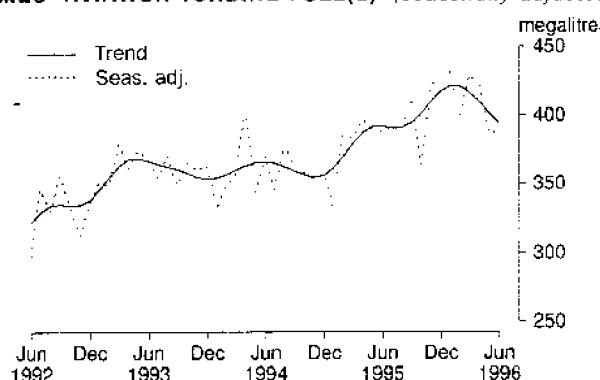
M27 FUEL OIL(d) (seasonally adjusted series average movement 15%)



For footnotes see page 23.

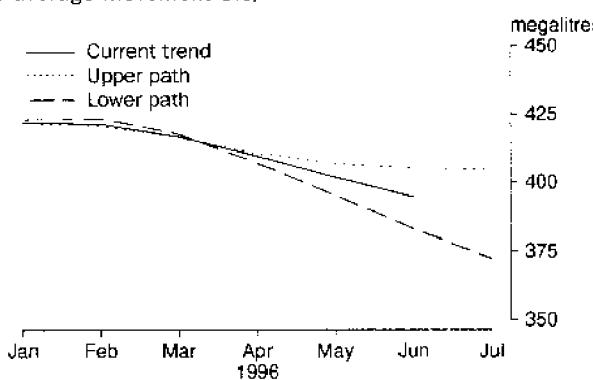
Longer term trend (a)

— Trend
..... Seas. adj.



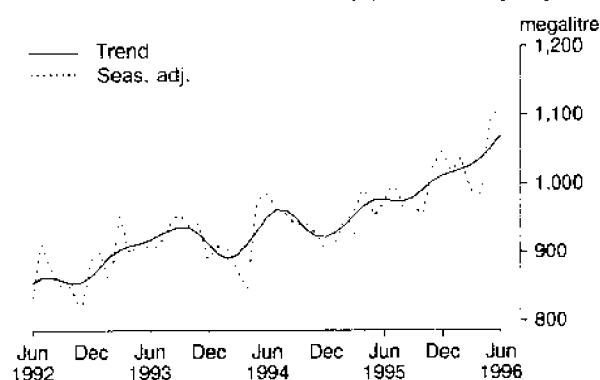
Short-term sensitivity analysis

— Current trend
..... Upper path
— Lower path

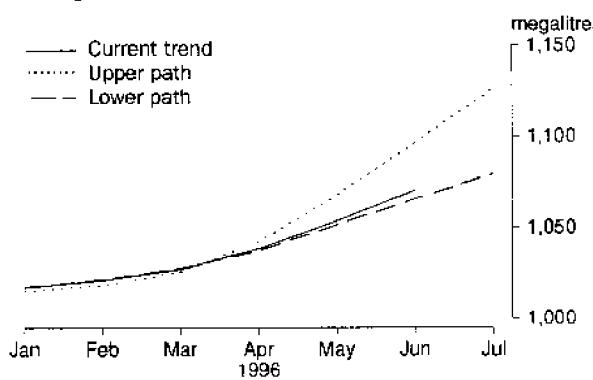


M29 AUTOMOTIVE DIESEL OIL(d) (seasonally adjusted series average movement 5%)

— Trend
..... Seas. adj.

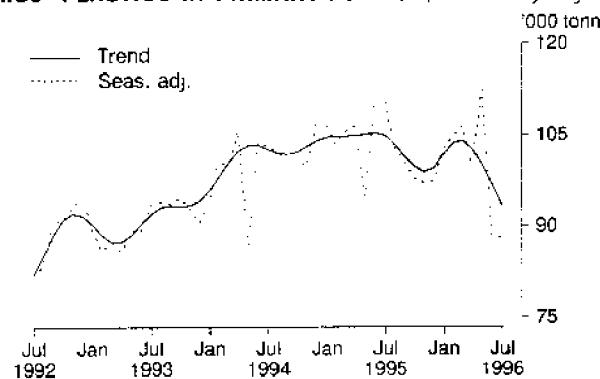


— Current trend
..... Upper path
— Lower path

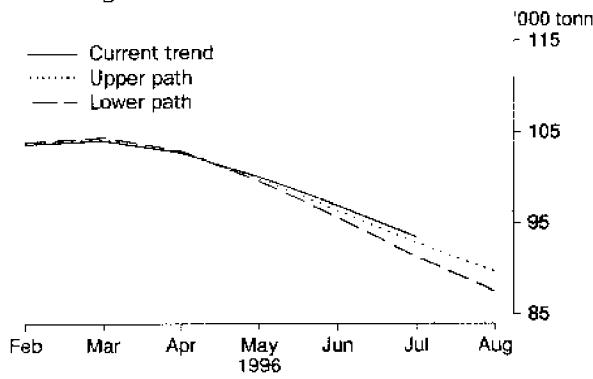


M30 PLASTICS IN PRIMARY FORMS (seasonally adjusted series average movement 4%)

— Trend
..... Seas. adj.

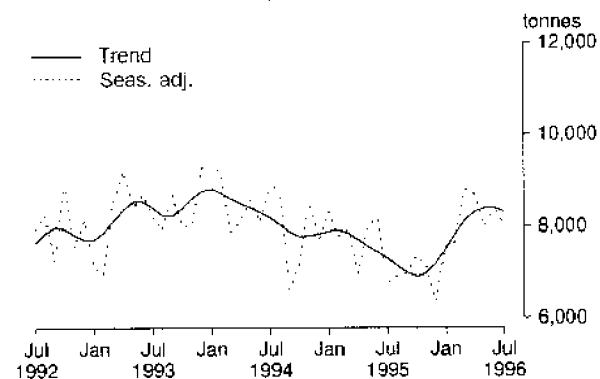


— Current trend
..... Upper path
— Lower path

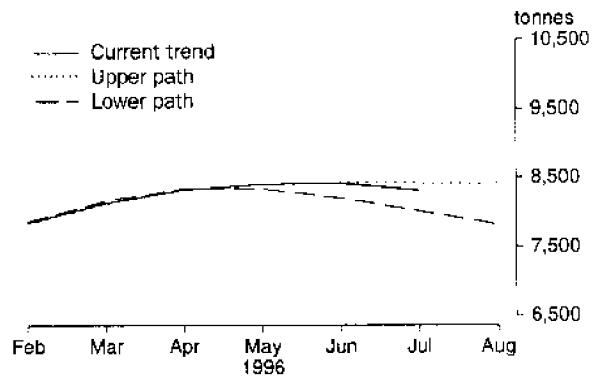


M31 RIGID PVC TUBES, PIPES AND HOSES (seasonally adjusted series average movement 9%)

— Trend
..... Seas. adj.

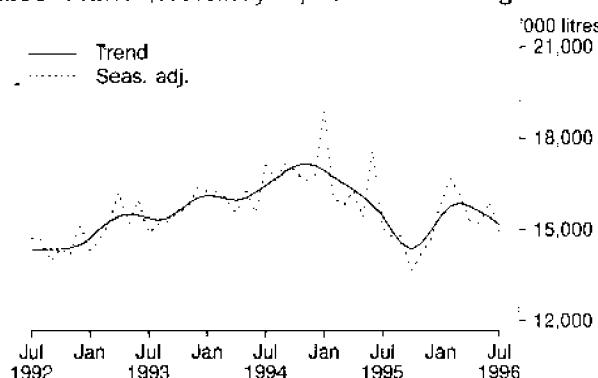


— Current trend
..... Upper path
— Lower path

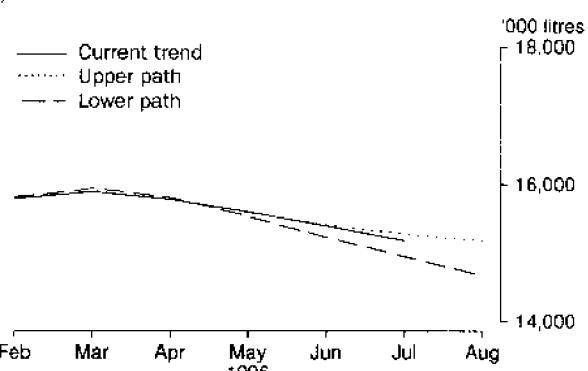
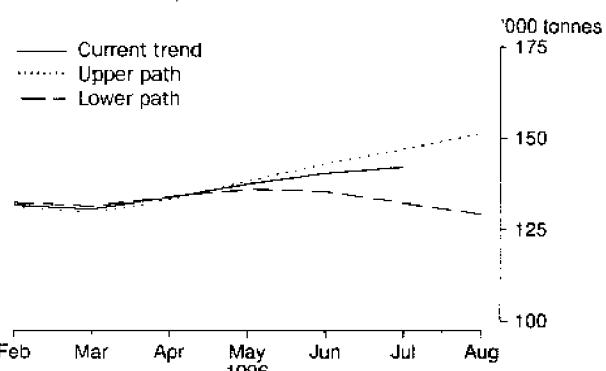
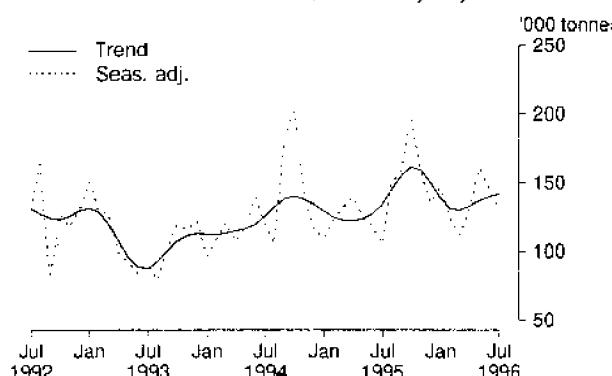
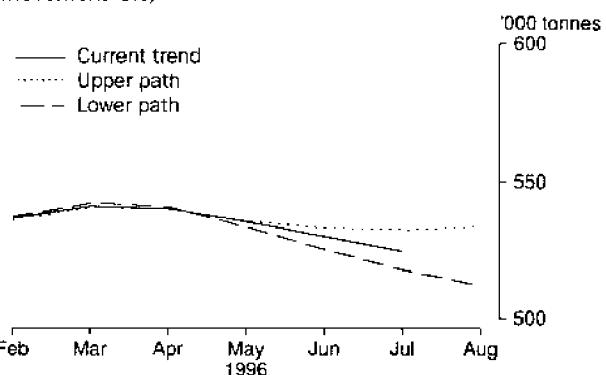
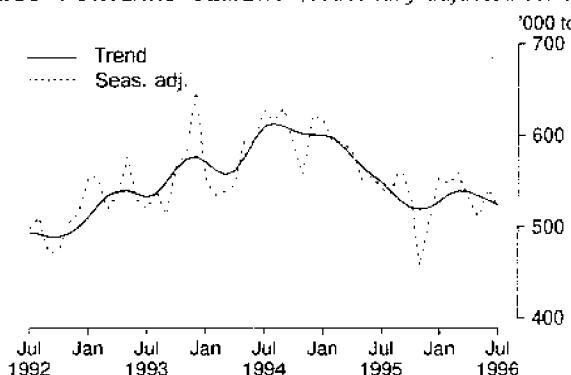
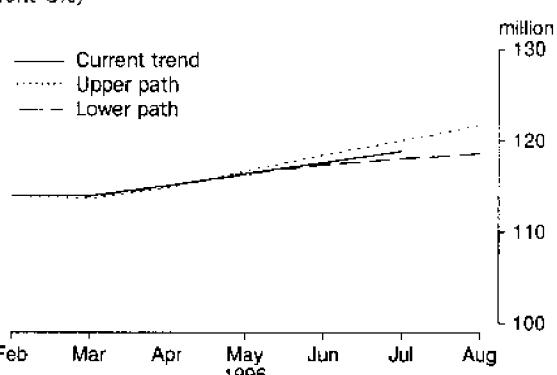
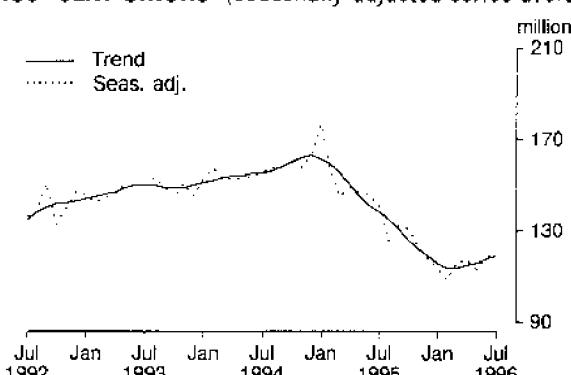


For footnotes see page 23.

Longer term trend (a)

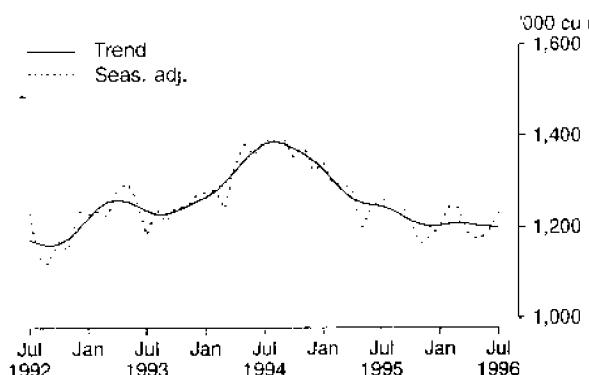
M33 PAINT (seasonally adjusted series average movement 4%)

Short-term sensitivity analysis

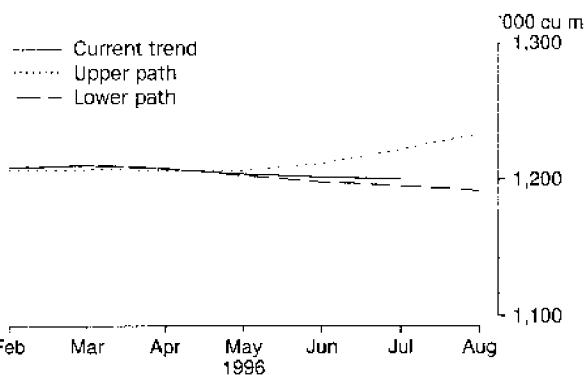
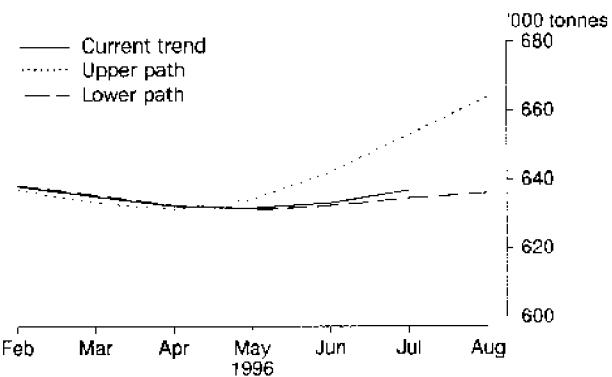
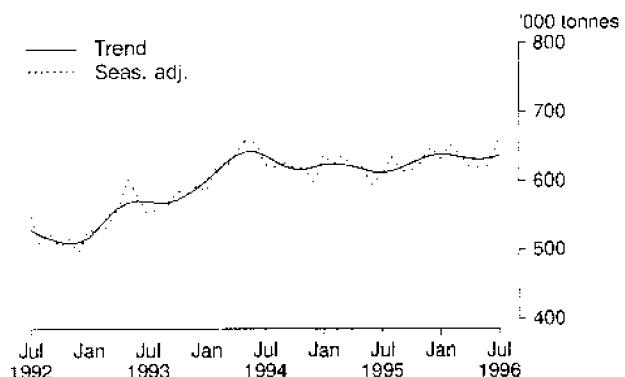
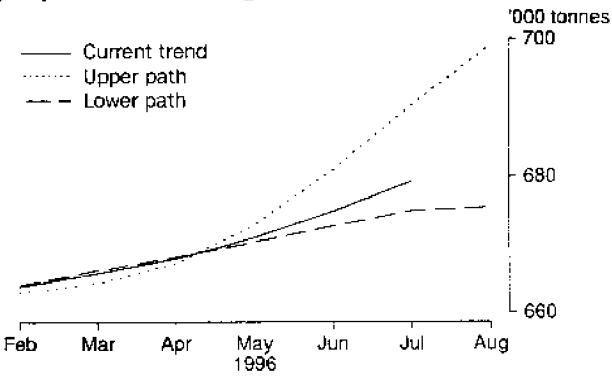
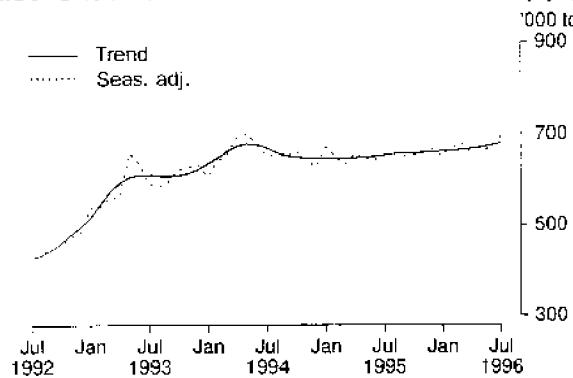
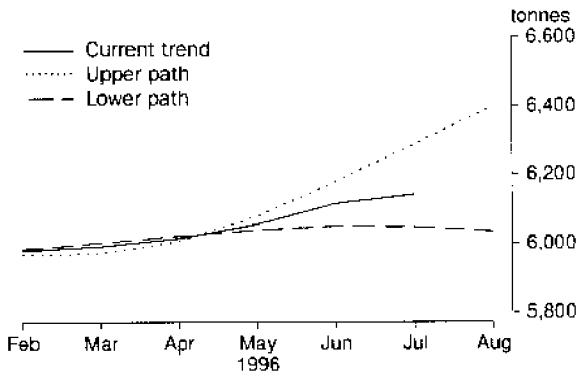
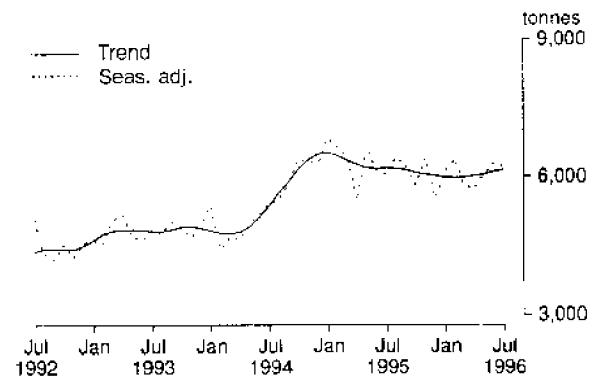
**M34 SUPERPHOSPHATES** (seasonally adjusted series average movement 15%)**M35 PORTLAND CEMENT** (seasonally adjusted series average movement 5%)**M36 CLAY BRICKS** (seasonally adjusted series average movement 3%)

For footnotes see page 23.

Longer term trend (a)

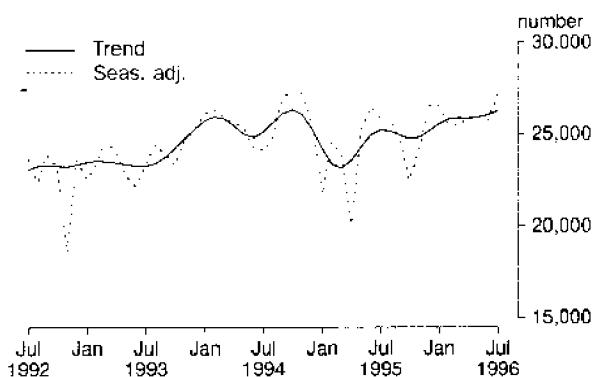
M37 READY MIXED CONCRETE (seasonally adjusted series average movement 4%)

Short-term sensitivity analysis

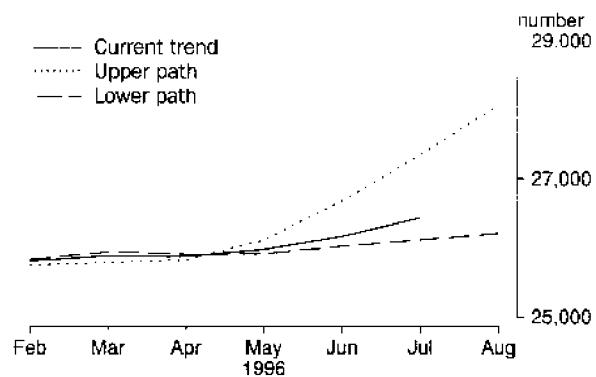
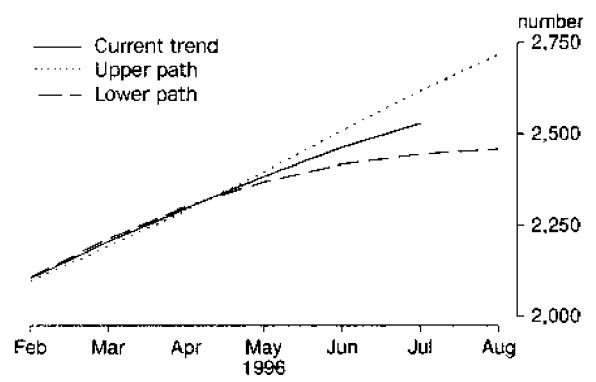
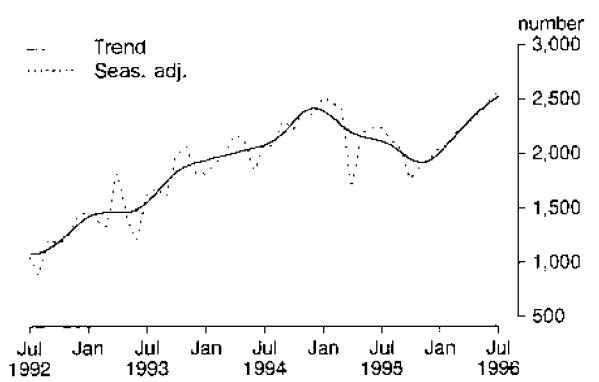
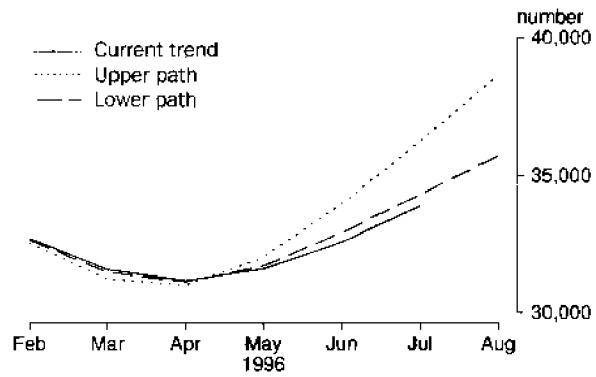
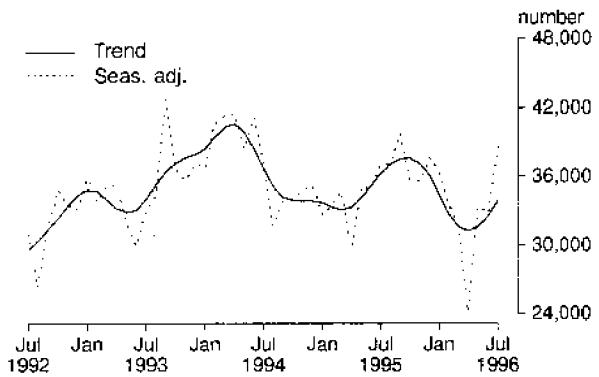
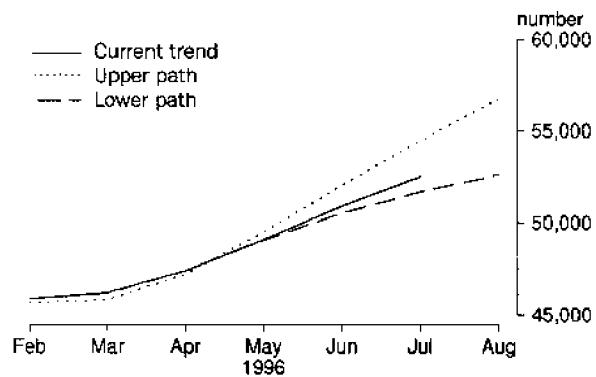
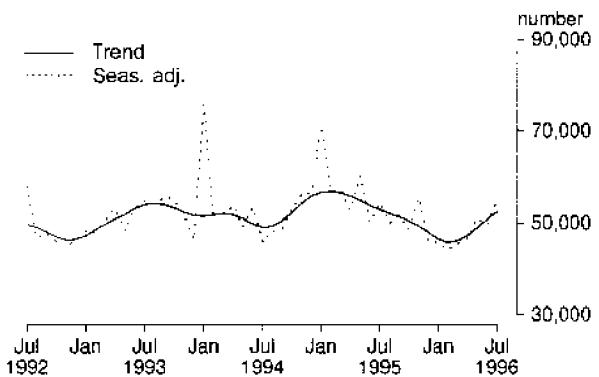
**M38 BASIC IRON, SPIEGELEISEN AND SPONGE IRON(e)** (seasonally adjusted series average movement 5%)**M39 BLOOMS AND SLABS OF IRON OR STEEL(e)** (seasonally adjusted series average movement 4%)**M40 INSULATED WIRE** (seasonally adjusted series average movement 7%)

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)**M44 DOMESTIC REFRIGERATORS** (seasonally adjusted series average movement 8%)**M45 WATER HEATERS** (seasonally adjusted series average movement 7%)

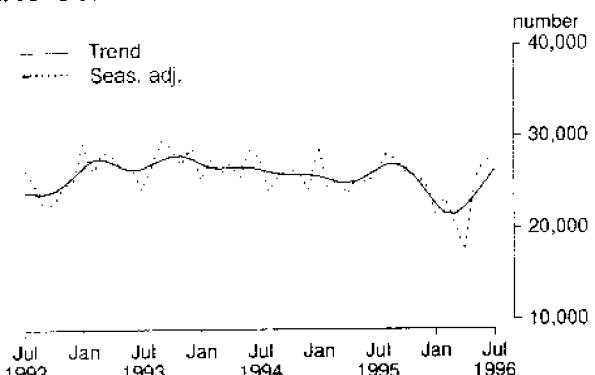
For footnotes see page 23.

M

MONTHLY PRODUCTION *continued*

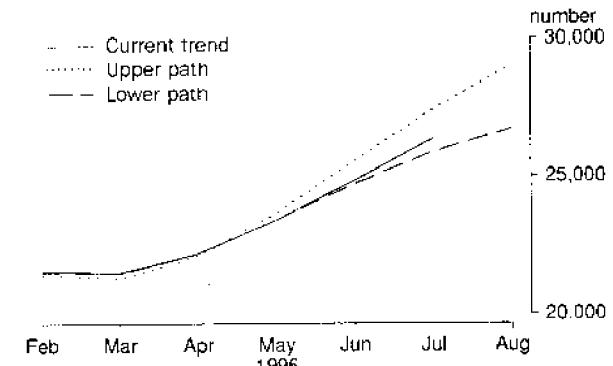
Longer term trend(a)

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

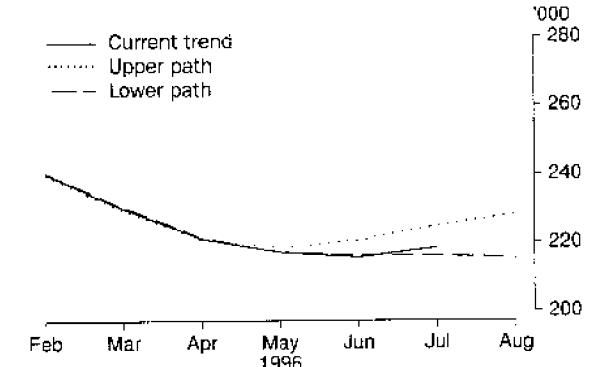
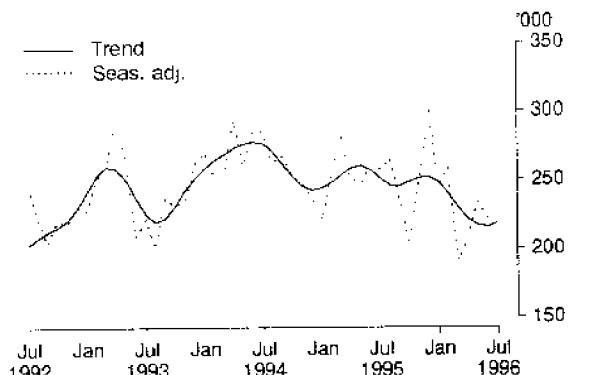


Short-term sensitivity analysis

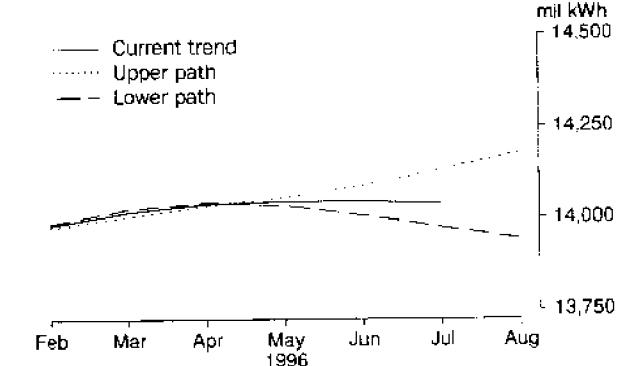
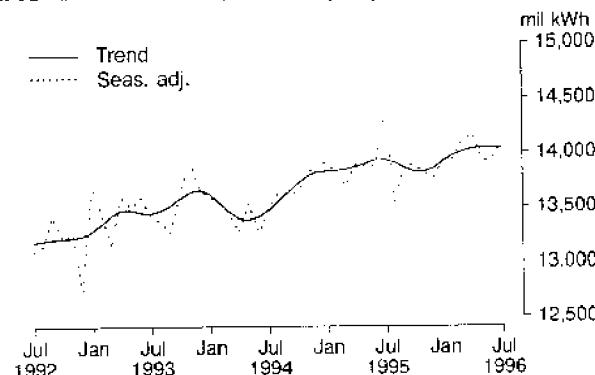
M46 DOMESTIC CLOTHES WASHING MACHINES (seasonally adjusted series average movement 9%)



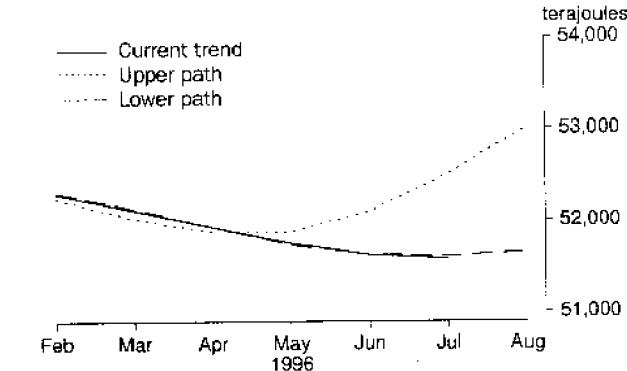
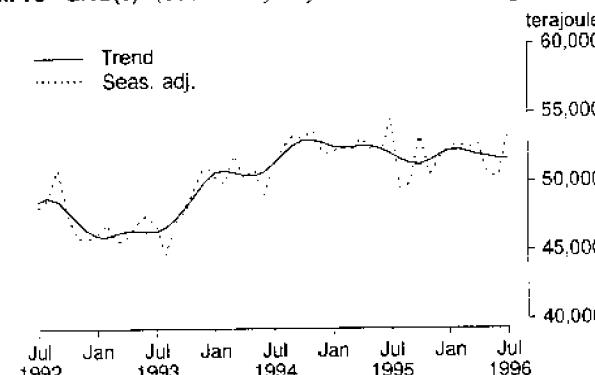
M47 ELECTRIC MOTORS (seasonally adjusted series average movement 7%)



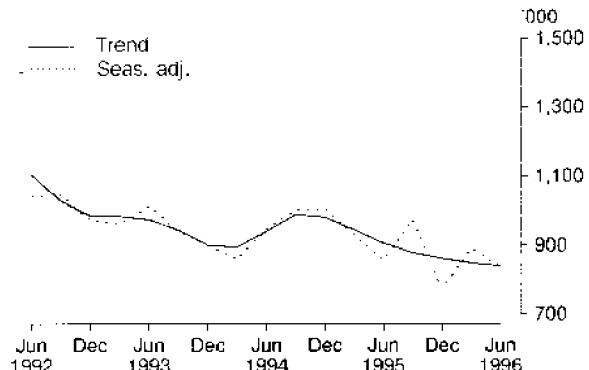
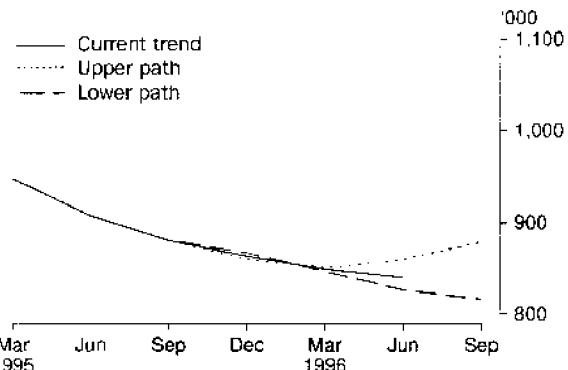
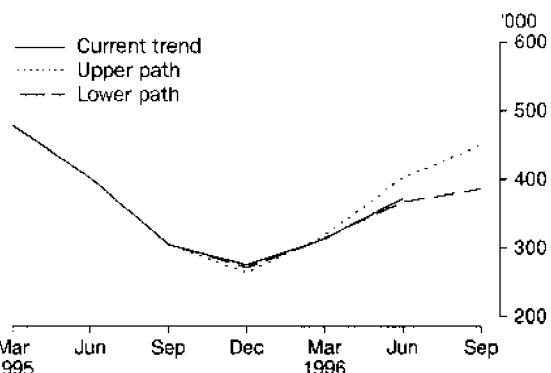
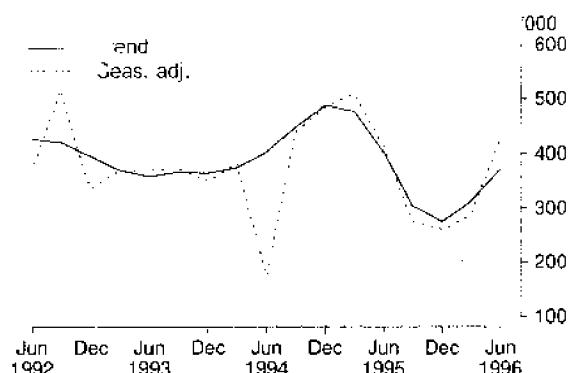
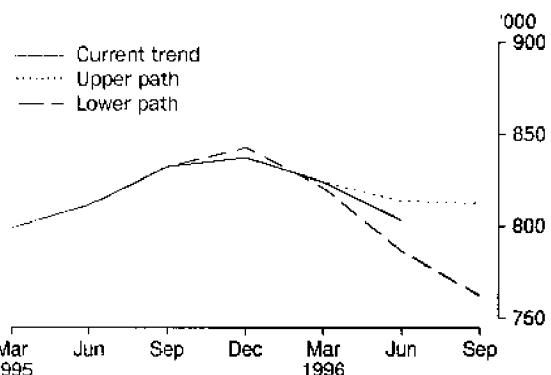
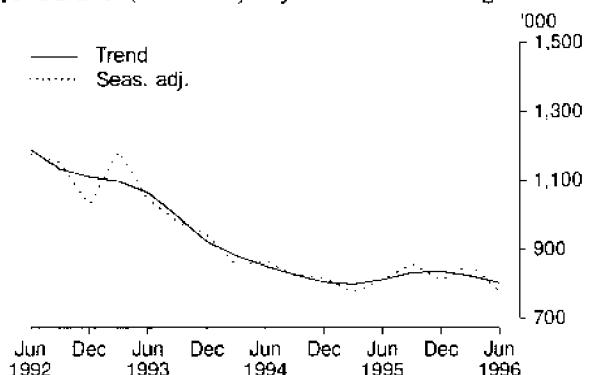
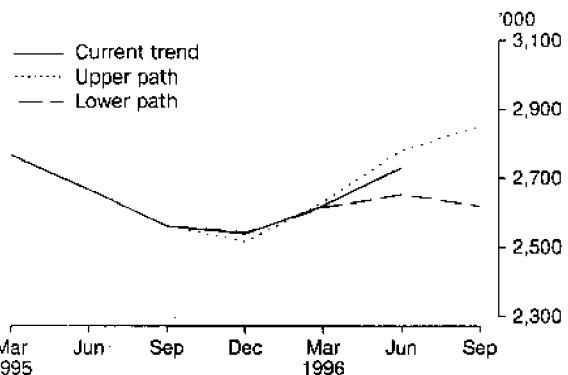
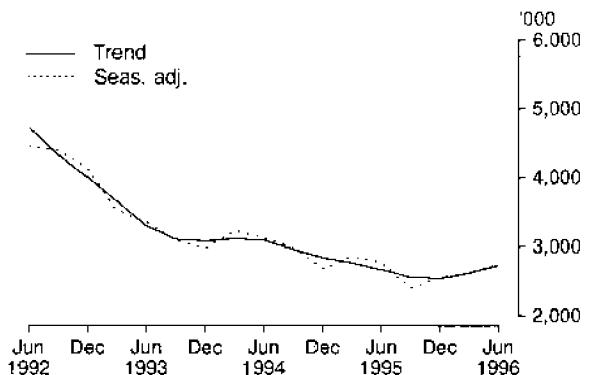
M48 ELECTRICITY (seasonally adjusted series average movement 1%)



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

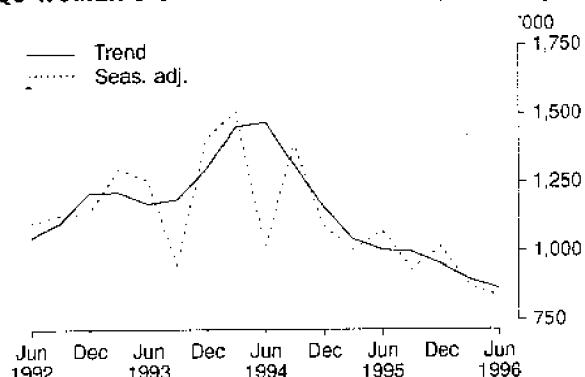


For footnotes see page 23.

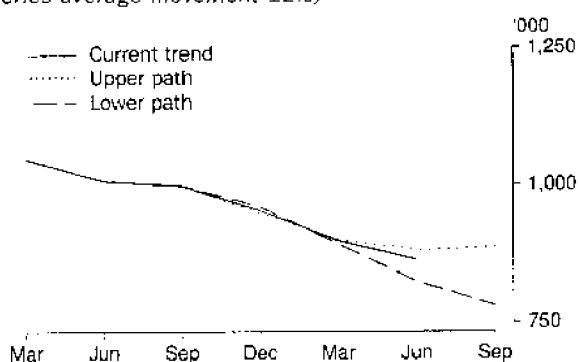
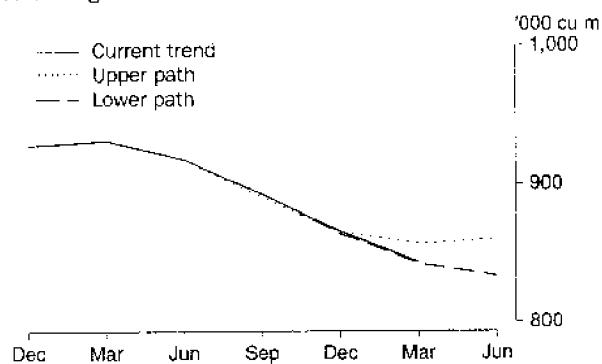
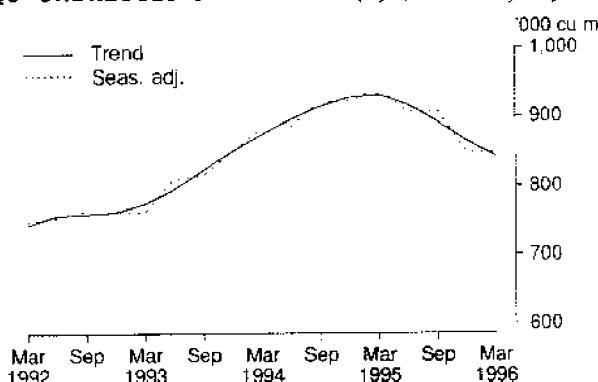
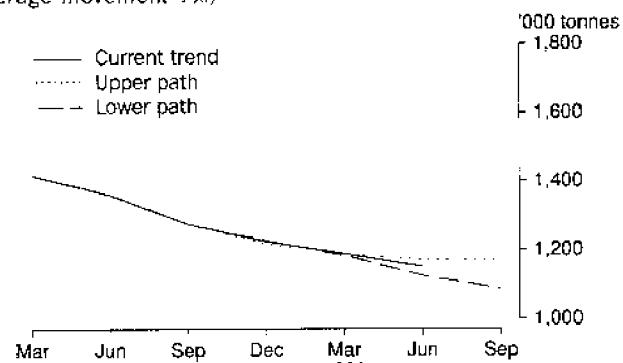
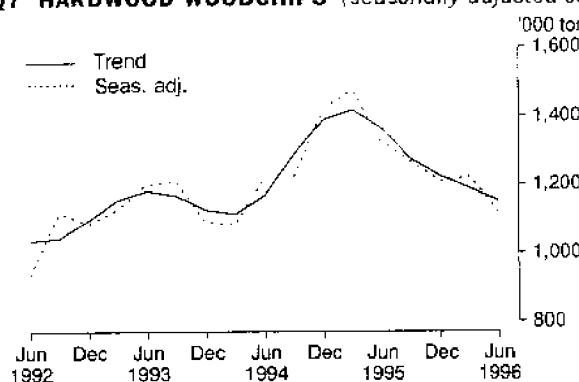
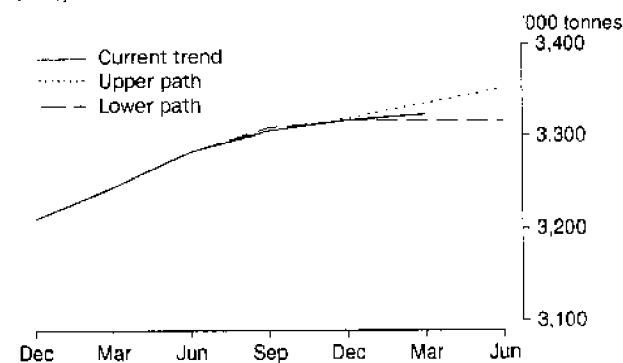
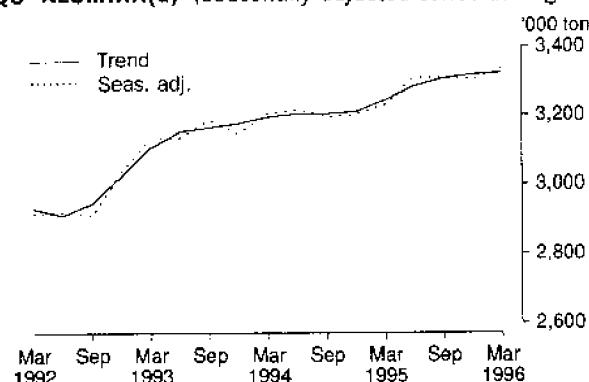
Longer term trend(a)**Q1 MEN'S AND BOYS' LONG TROUSERS** (seasonally adjusted series average movement 7%)**Short-term sensitivity analysis****Q2 WOMEN'S AND GIRLS' LONG TROUSERS** (seasonally adjusted series average movement 14%)**Q3 JEANS** (seasonally adjusted series average movement 6%)**Q4 MEN'S AND BOYS' SHIRTS** (seasonally adjusted series average movement 8%)

For footnotes see page 23.

Longer term trend(a)

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

Short-term sensitivity analysis

**Q6 UNDRESSED SAWN TIMBER(d)** (seasonally adjusted series average movement 3%)**Q7 HARDWOOD WOODCHIPS** (seasonally adjusted series average movement 7%)**Q8 ALUMINA(d)** (seasonally adjusted series average movement 1%)

For footnotes see page 23.

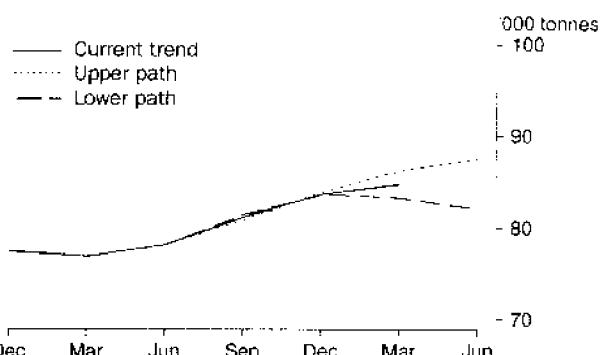
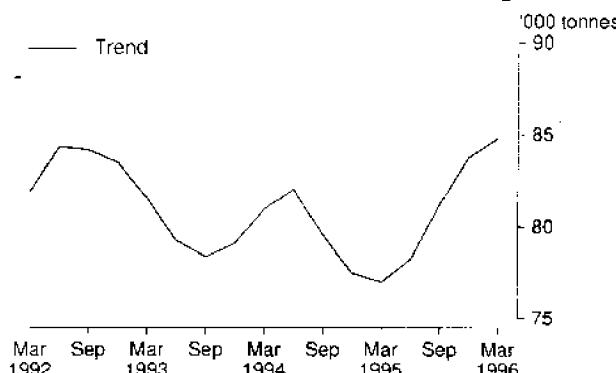
Q

QUARTERLY PRODUCTION *continued*

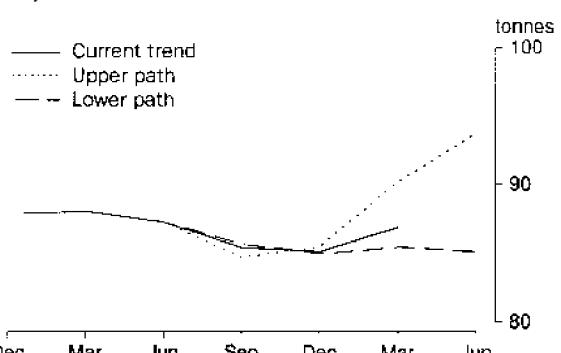
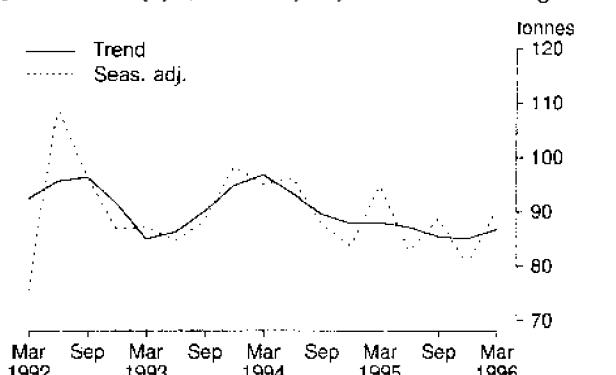
Longer term trend (a)

Short-term sensitivity analysis

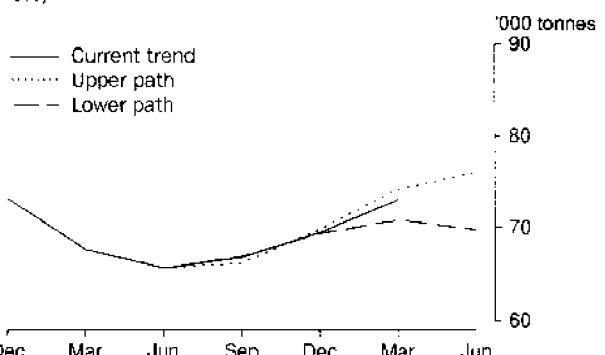
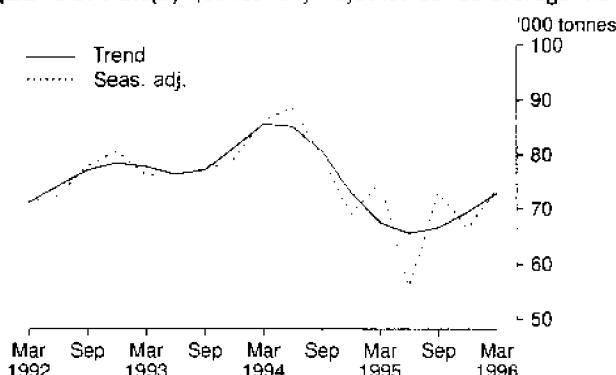
Q9 ZINC(d) (seasonally adjusted series average movement 6%)



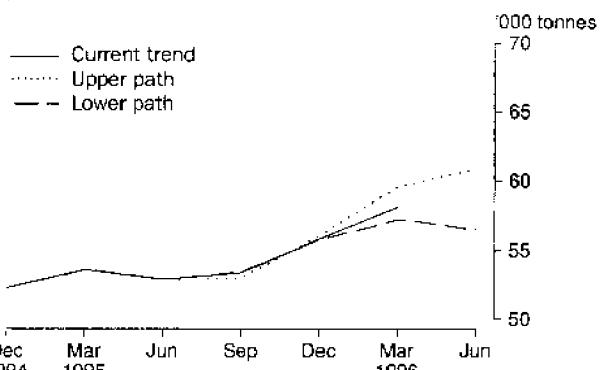
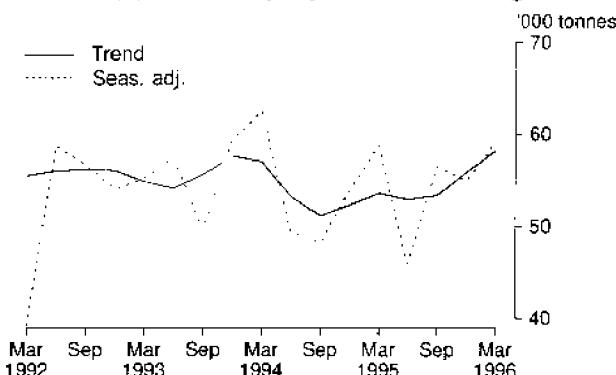
Q10 SILVER(d) (seasonally adjusted series average movement 9%)



011 COPPER(d) (seasonally adjusted series average movement 8%)

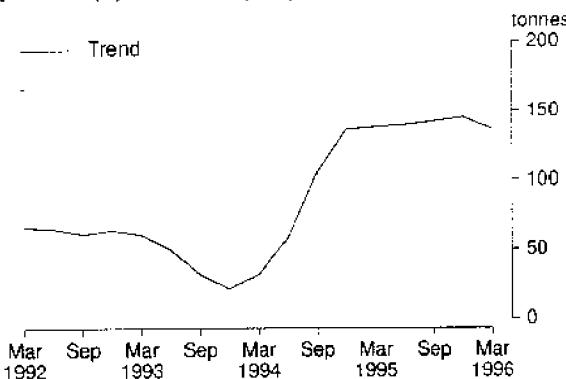


Q12 LEAD(d) (seasonally adjusted series average movement 7%)

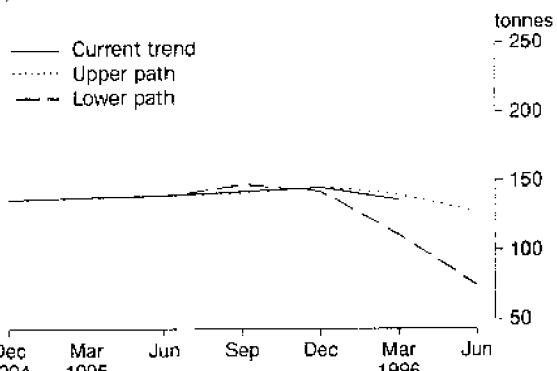
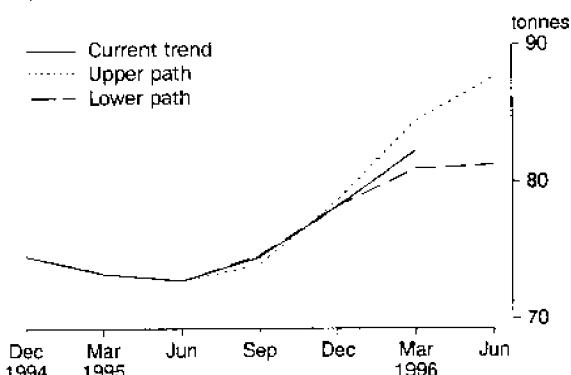
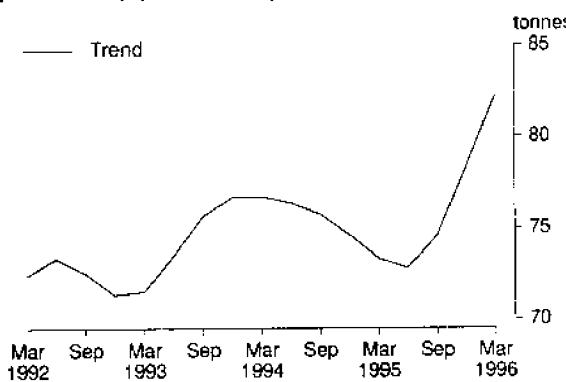


For footnotes see page 23.

Longer term trend(a)

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

Short-term sensitivity analysis

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

Percentage
changes between
latest month
shown and—

No.	Item	Series (a)	Unit	1995			1996					prev. month	same month prev. year	
				Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July		
M1	Red meat	Orig. r	'000 tonnes	240	194	199	224	227	204	229	200	n.y.a.	-12.8	-11.9
		S. adj. r	"	215	212	225	229	225	213	203	211	n.y.a.	4.1	-5.7
		Trend r	"	217	219	221	221	219	216	213	210	n.y.a.	-1.5	-4.5
M2	Chicken meat	Orig. r	tonnes	38,014	42,193	39,471	38,135	41,814	38,388	38,080	38,200	n.y.a.	0.3	1.7
		S. adj. r	"	38,513	40,990	38,015	37,942	43,598	37,170	37,789	38,460	n.y.a.	1.8	4.7
		Trend r	"	39,242	39,269	39,310	39,347	39,299	39,051	38,690	38,311	n.y.a.	-1.0	1.0
M3	Cheese(b)	Orig. r	"	30,462	29,238	24,788	21,053	19,908	19,232	16,135	11,755	n.y.a.	-27.1	1.7
		S. adj. r	"	21,287	22,495	20,899	21,234	21,017	22,645	22,511	23,316	n.y.a.	3.6	5.5
		Trend r	"	21,526	21,422	21,397	21,506	21,756	22,090	22,457	22,784	n.y.a.	1.5	7.5
M4	Butter(b)	Orig. r	"	19,528	18,624	16,075	11,776	11,401	8,318	6,542	8,180	n.y.a.	25.0	23.1
		S. adj. r	"	11,648	11,719	12,393	12,052	12,165	11,970	12,484	16,344	n.y.a.	30.9	22.5
		Trend r	"	11,235	11,516	11,853	12,105	12,370	12,823	13,406	14,016	n.y.a.	4.6	20.9
M5	Flour of wheat or of meslin	Orig. r	'000 tonnes	123	119	104	119	124	111	135	122	128	5.3	18.6
		S. adj. r	"	115	129	115	119	121	122	123	118	130	10.1	15.2
		Trend r	"	117	119	120	120	121	121	122	123	125	1.5	12.0
M6	Prepared foods from cereals	Orig. r	tonnes	9,661	6,594	8,371	8,570	10,431	7,277	8,951	7,758	7,012	-9.6	18.3
		S. adj. r	"	9,211	6,750	8,925	8,776	9,824	7,852	8,330	7,728	7,289	-5.7	12.2
		Trend r	"	8,487	8,551	8,624	8,653	8,634	8,483	8,223	7,945	7,559	-4.9	-9.8
M7	Biscuits	Orig. r	"	13,897	10,679	6,864	11,317	12,978	9,936	12,875	12,742	12,602	-1.1	6.3
		S. adj. r	"	12,053	12,245	10,868	11,172	12,011	11,692	12,007	12,400	11,855	-4.4	2.5
		Trend r	"	11,947	11,751	11,589	11,546	11,635	11,784	11,935	12,057	12,197	1.2	2.2
M8	Chocolate based confectionery	Orig. r	"	11,396	9,534	7,558	9,264	9,186	6,499	9,395	9,302	9,852	5.9	-3.1
		S. adj. r	"	9,916	9,669	12,194	8,796	8,836	8,277	8,913	9,366	9,750	4.1	-8.5
		Trend r	"	9,671	9,459	9,202	8,966	8,818	8,825	8,943	9,118	9,328	2.3	-2.0
M9	Other confectionery	Orig. r	"	7,436	5,001	3,564	5,709	6,518	4,418	6,057	6,605	6,201	6.1	1.4
		S. adj. r	"	6,175	5,321	6,136	5,952	6,537	5,478	5,993	6,244	5,864	-6.1	-2.3
		Trend r	"	6,116	6,059	6,006	5,973	5,977	6,004	6,009	6,007	5,961	-0.8	-2.2
M10	Malt	Orig. r	"	51,787	45,016	42,853	49,747	45,992	46,119	48,050	54,107	50,069	-7.5	11.4
		S. adj. r	"	47,216	45,679	44,957	47,713	46,229	49,036	43,886	55,918	51,927	-7.1	11.4
		Trend r	"	46,296	46,115	46,025	46,296	46,983	48,030	49,296	50,621	51,846	2.4	11.8
M11	Beer	Orig. r	mil litres	193	161	133	128	147	131	146	120	129	7.0	8.3
		S. adj. r	"	154	139	135	135	147	142	149	150	140	-6.7	-0.4
		Trend r	"	146	143	141	140	142	144	145	146	147	0.3	-1.9
M12	Tobacco and cigarettes(c)	Orig. r	tonnes	1,671	1,647	667	1,751	1,857	1,629	1,834	1,777	2,255	26.9	4.5
		S. adj. r	"	1,577	1,791	1,147	1,585	1,777	1,951	1,571	1,817	1,758	-3.3	-4.4
		Trend r	"	1,601	1,558	1,556	1,596	1,658	1,716	1,759	1,785	1,823	2.1	1.1
M13	Man-made fibre woven fabric	Orig. r	'000 sq m	14,770	9,655	7,937	13,044	12,196	9,327	13,659	11,011	12,258	11.3	-11.5
		S. adj. r	"	13,433	11,533	11,857	12,027	11,160	10,464	12,353	10,544	11,438	8.5	-15.1
		Trend r	"	12,703	12,209	11,808	11,561	11,408	11,287	11,221	11,198	11,153	-0.4	-20.2
M14	Cotton woven fabric	Orig. r	"	6,975	4,474	3,340	5,828	4,848	4,394	6,033	5,109	6,692	31.0	42.9
		S. adj. r	"	6,415	4,994	7,946	5,496	4,114	5,064	5,208	4,713	6,882	46.0	42.9
		Trend r	"	6,117	6,137	5,925	5,590	5,298	5,150	5,168	5,322	5,440	2.2	12.6
M15	Cotton yarn	Orig. r	tonnes	3,552	2,318	1,901	3,282	3,381	2,509	3,281	3,527	3,905	10.7	26.2
		S. adj. r	"	3,305	2,769	3,095	3,248	3,034	2,886	3,071	3,011	3,645	21.0	17.3
		Trend r	"	3,093	3,082	3,051	3,034	3,033	3,059	3,113	3,191	3,256	2.1	2.2
M16	Wool yarn	Orig. r	"	1,444	1,301	1,236	1,798	1,685	1,445	1,673	1,483	1,646	11.0	-18.1
		S. adj. r	"	1,339	1,655	1,742	1,717	1,760	1,624	1,547	1,525	1,437	-5.8	-26.0
		Trend r	"	1,628	1,629	1,656	1,680	1,678	1,642	1,587	1,528	1,477	-3.4	-19.4

For footnotes see page 23.

*Percentage
changes between
latest month
shown and—*

No.	Item	Series (a)	Unit	1995			1996					prev. month	same month prev. year	
				Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July		
M17	Wool woven fabric(g)	Orig. r S. adj. r Trend r	'000 sq m	630 572 572	508 618 570	334 510 557	702 600 539	608 419 523	412 468 509	528 604 502	536 473 499	487 502 502	-9.0 -21.8 0.6	8.1 -5.0 15.5
M18	Textile floor coverings	Orig. r S. adj. r Trend r	"	3,192 2,743 3,421	3,046 3,593 3,489	2,483 3,837 3,589	4,057 3,750 3,666	3,855 3,757 3,684	3,456 3,673 3,655	3,621 3,454 3,604	3,249 3,427 3,552	3,784 3,684 3,519	16.5 7.5 -0.9	-6.3 -10.7 -4.1
M19	Footwear	Orig. r S. adj. r Trend r	'000 pairs	1,381 1,270 1,304	1,029 1,229 1,285	756 1,358 1,265	1,326 1,225 1,247	1,339 1,211 1,231	1,183 1,189 1,215	1,346 1,230 1,200	1,089 1,194 1,187	1,195 1,161 1,172	9.7 -2.7 -1.3	-2.9 -7.7 -8.5
M21	Newsprint	Orig. r S. adj. r Trend r	tonnes	38,931 38,101 37,594	36,733 38,084 37,542	38,631 37,161 37,261	40,350 38,247 36,898	36,111 36,001 36,612	34,818 34,046 36,522	40,194 37,595 36,693	35,515 37,379 37,021	38,160 38,449 37,436	7.4 2.9 1.1	8.4 6.1 0.0
M22	Wood pulp	Orig. r S. adj. r Trend r	"	78,435 76,266 83,537	92,434 93,450 82,968	80,019 80,078 82,260	83,003 80,930 81,475	78,760 76,902 80,911	76,641 78,495 80,327	90,827 87,927 79,779	76,614 77,345 79,090	74,031 76,196 79,115	-3.4 -1.5 0.0	-4.0 -1.9 -7.2
M23	Unlaminated particle board	Orig. r S. adj. r Trend r	'000 cu m	79 69 66	57 70 68	36 61 68	73 73 69	74 71 69	68 68 68	73 65 67	67 68 66	63 61 65	-5.4 -9.8 -1.4	2.0 -7.8 -3.2
M25	Paperboard containers	Orig. r S. adj. r Trend r	'000 tonnes	106,031 n.a. n.a.	82,823 n.a. n.a.	86,695 n.a. n.a.	90,553 n.a. n.a.	91,749 n.a. n.a.	84,024 n.a. n.a.	88,295 n.a. n.a.	81,107 n.a. n.a.	99,703 n.a. n.a.	22.9 n.a. n.a.	14.1 n.a. n.a.
M26	Automotive gasoline(d)	Orig. r S. adj. r Trend r	megalitres	1,487 1,581 1,523	1,537 1,509 1,523	1,561 1,482 1,523	1,463 1,525 1,526	1,529 1,527 1,534	1,544 1,586 1,546	1,573 1,521 1,560	1,585 1,604 1,576	n.y.a. n.y.a. n.y.a.	0.7 5.4 1.0	9.5 9.5 5.5
M27	Fuel oil(d)	Orig. r S. adj. r Trend r	"	164 n.p. 175	209 n.p. 164	129 n.p. 154	139 n.p. 146	126 142	127 141	138 142	165 n.p. 146	n.y.a. n.p. n.y.a.	19.8 2.6 -32.2	-19.0 n.p. -32.2
M28	Aviation turbine fuel(d)	Orig. r S. adj. r Trend r	"	430 420 410	463 435 418	452 432 422	398 400 421	414 429 417	392 422 410	378 387 402	359 390 395	n.y.a. n.y.a. n.y.a.	-5.0 0.8 -1.8	1.2 0.4 0.6
M29	Automotive diesel oil(d)	Orig. r S. adj. r Trend r	"	1,011 1,023 1,004	1,119 1,047 1,012	1,049 1,018 1,017	980 1,038 1,021	953 991 1,027	955 986 1,039	1,127 1,094 1,054	1,082 1,110 1,070	n.y.a. n.y.a. n.y.a.	-3.9 1.5 1.6	14.3 14.1 9.6
M30	Plastics in primary forms	Orig. r S. adj. r Trend r	'000 tonnes	96 97 99	85 98 100	98 103 102	102 105 104	108 107 104	100 100 103	113 112 100	81 88 97	100 88 93	23.3 -0.5 -3.6	-13.9 -20.4 -10.9
M31	Rigid PVC tubes, pipes and hoses	Orig. r S. adj. r Trend r	tonnes	7,649 7,143 6,971	5,588 6,356 7,192	4,479 7,569 7,509	8,753 7,661 7,841	9,229 8,804 8,133	7,599 8,707 8,325	9,608 7,990 8,400	8,780 8,444 8,407	9,439 8,021 8,317	7.5 -5.0 -1.1	25.5 18.5 14.0
M32	Polyethylene bottles up to two litres	Orig. r S. adj. r Trend r	million	121 n.a. n.a.	147 n.a. n.a.	119 n.a. n.a.	129 n.a. n.a.	140 n.a. n.a.	109 n.a. n.a.	115 n.a. n.a.	107 n.a. n.a.	107 n.a. n.a.	0.3 n.a. n.a.	11.3 n.a. n.a.
M33	Paint	Orig. r S. adj. r Trend r	'000 litres	14,914 14,232 14,561	15,103 14,682 14,980	13,006 15,858 15,466	16,714 16,684 15,787	17,602 16,119 15,887	13,947 15,299 15,782	16,119 15,218 15,595	14,627 15,907 15,406	15,253 14,858 15,186	4.3 -6.6 -1.4	3.3 -1.1 -1.6
M34	Superphosphates	Orig. r S. adj. r Trend r	'000 tonnes	183 158 160	162 135 150	208 147 139	171 124 132	161 112 131	156 130 134	174 161 137	101 145 140	80 132 142	-20.7 -9.4 1.3	35.1 25.2 5.2

For footnotes see page 23.

Percentage
changes between
latest month
shown and-

No.	Item	Series (a)	Unit	1995			1996					prev. month	same month prev. year	
				Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July		
M35	Portland cement	Orig.	'000 tonnes	508	483	414	533	579	491	543	559	553	-1.1	-2.7
		S. adj. r	"	458	509	555	548	560	533	512	542	524	-3.3	3.4
		Trend r	"	520	522	529	537	541	540	535	530	525	-1.0	-4.5
M36	Clay bricks	Orig.	million	127	104	79	108	123	116	125	120	130	8.4	-7.5
		S. adj. r	"	123	118	114	109	116	118	113	119	120	1.2	-14.5
		Trend r	"	122	119	116	114	114	115	116	118	119	1.1	-13.9
M37	Ready mixed concrete	Orig. r	'000 cu m	1,255	1,013	953	1,238	1,288	1,104	1,307	1,157	1,322	14.3	3.7
		S. adj. r	"	1,166	1,182	1,203	1,247	1,242	1,184	1,173	1,193	1,232	3.3	-2.3
		Trend r	"	1,206	1,202	1,205	1,208	1,210	1,208	1,204	1,201	1,200	0.1	-3.6
M38	Basic iron, spiegeleisen & sponge iron(e)	Orig.	'000 tonnes	633	639	630	611	636	614	620	620	678	9.4	8.5
		S. adj. r	"	627	651	632	653	639	621	619	624	663	6.2	8.5
		Trend r	"	632	637	639	638	635	632	632	633	637	0.6	3.9
M39	Blooms and slabs of iron or steel(e)	Orig.	"	669	664	657	618	670	642	655	658	696	5.7	5.7
		S. adj. r	"	660	667	650	669	679	659	664	670	694	3.5	6.2
		Trend r	"	660	661	662	664	666	668	671	675	679	0.7	4.0
M40	Insulated wire	Orig.	tonnes	6,949	4,529	3,612	6,663	6,549	5,457	6,705	6,037	6,604	9.4	2.7
		S. adj. r	"	6,398	5,539	6,104	6,390	5,827	5,734	6,035	6,310	6,216	-1.5	3.0
		Trend r	"	6,049	6,020	5,989	5,979	5,992	6,015	6,056	6,116	6,143	0.4	-0.7
M41	Cars and station wagons	Orig.	number	27,826	20,843	13,172	26,787	26,050	22,629	30,293	25,310	30,701	21.3	12.8
		S. adj. r	"	24,281	26,627	26,546	25,540	25,433	25,924	25,761	25,720	27,208	5.8	5.1
		Trend r	"	24,828	25,196	25,583	25,830	25,895	25,870	25,942	26,087	26,312	0.9	4.3
M42	Vehicles for goods and materials	Orig.	"	2,159	1,476	1,003	2,134	2,430	2,168	2,864	2,419	2,830	17.0	23.5
		S. adj. r	"	1,888	1,942	2,060	2,081	2,234	2,283	2,379	2,478	2,572	3.8	14.4
		Trend r	"	1,916	1,940	2,008	2,104	2,205	2,297	2,384	2,464	2,529	2.6	19.5
M43	Telephones	Orig.	'000	144	124	72	66	91	79	108	76	101	32.2	-13.4
		S. adj.	"	n.a.	n.a.	n.a.								
		Trend r	"	n.a.	n.a.	n.a.								
M44	Domestic refrigerators	Orig.	number	42,831	34,485	38,183	37,107	33,988	20,441	36,299	27,261	35,700	31.0	13.0
		S. adj. r	"	35,552	37,638	36,365	33,652	31,532	24,079	33,366	32,761	38,557	17.7	4.1
		Trend r	"	37,127	36,060	34,397	32,726	31,582	31,197	31,610	32,574	33,912	4.1	-6.6
M45	Water heaters	Orig.	"	59,653	40,651	21,528	44,569	50,738	38,653	59,112	50,558	60,772	20.2	11.4
		S. adj. r	"	55,438	46,075	45,655	44,125	45,588	46,632	51,014	49,603	55,086	11.1	1.4
		Trend r	"	49,314	47,932	46,539	45,885	46,210	47,436	49,126	50,946	52,533	3.1	-0.6
M46	Domestic clothes washing machines	Orig.	"	29,485	20,873	10,757	23,619	20,595	15,306	25,940	27,380	31,489	15.0	13.9
		S. adj. r	"	25,683	24,793	21,370	23,204	20,537	17,435	25,089	27,200	27,587	1.4	5.1
		Trend r	"	25,402	23,970	22,486	21,380	21,526	22,231	23,440	24,858	26,366	6.1	0.0
M47	Electric motors	Orig.	'000	280	253	158	282	204	185	267	213	228	6.9	-6.1
		S. adj. r	"	254	300	245	259	191	208	234	221	223	0.5	-13.7
		Trend r	"	252	252	248	240	230	221	217	216	219	1.2	-13.0
M48	Electricity	Orig.	mil k Wh	13,315	13,420	13,679	13,354	14,043	13,342	14,414	14,366	15,349	6.8	0.9
		S. adj. r	"	13,803	13,778	13,940	13,948	14,116	14,169	13,925	13,950	14,106	1.1	-1.9
		Trend r	"	13,825	13,863	13,924	13,981	14,016	14,039	14,046	14,046	14,039	-0.1	0.8
M49	Gas(f)	Orig.	terajoules	47,053	43,940	42,024	43,968	47,210	48,910	54,562	58,615	65,895	12.4	-1.1
		S. adj. r	"	50,475	51,787	52,462	52,717	52,385	52,715	50,485	50,295	53,308	6.0	-2.4
		Trend r	"	51,503	51,902	52,222	52,291	52,116	51,931	51,752	51,630	51,585	-0.1	-0.7

For footnotes see page 23.

Percentage
changes between
latest quarter
shown and-

No.	Item	Series (a)	Unit	1994			1995			1996			prev. quarter	same quarter prev. year
				June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June		
Q1	Men's and boys' long trousers	Orig.	'000	1,048	1,039	987	822	944	1,013	756	788	923	17.2	-2.3
		S. adj. r	"	950	1,005	1,006	932	858	977	772	893	839	-6.1	2.2
		Trend r	"	942	991	982	947	907	880	864	849	840	-1.1	-7.4
Q2	Women's and girls' long trousers	Orig.	"	188	407	380	628	443	252	202	359	458	27.3	3.3
		S. adj. r	"	175	440	486	510	414	275	261	288	429	48.8	3.6
		Trend r	"	404	449	489	478	403	305	275	313	373	19.1	-7.3
Q3	Jeans	Orig.	"	945	941	770	641	887	979	764	706	851	20.5	-4.1
		S. adj. r	"	866	826	817	777	813	857	810	858	779	-9.3	-4.1
		Trend r	"	852	828	806	799	812	833	837	824	803	-2.5	-1.1
Q4	Men's and boys' shirts	Orig.	"	2,867	3,545	2,900	2,347	2,554	2,841	2,741	2,179	2,529	16.1	-0.9
		S. adj. r	"	3,123	2,995	2,688	2,859	2,772	2,404	2,557	2,632	2,741	4.2	-1.1
		Trend r	"	3,102	2,963	2,844	2,767	2,667	2,561	2,539	2,620	2,732	4.3	2.4
Q5	Women's shirts and blouses	Orig.	"	812	1,787	1,218	806	864	1,202	1,132	1,697	674	-3.4	22.0
		S. adj. r	"	1,021	1,388	1,094	1,009	1,076	935	1,017	874	835	-4.4	22.4
		Trend r	"	1,471	1,314	1,158	1,047	1,006	998	953	898	864	-3.8	-14.2
Q6	Undressed sawn timber(d)	Orig.	'000 cu m	905	967	916	883	925	956	839	799	n.y.a.	-4.8	-9.5
		S. adj. r	"	886	921	924	940	907	909	849	849	n.y.a.	0.1	-9.7
		Trend r	"	897	916	928	932	918	893	866	843	n.y.a.	-2.6	-9.5
Q7	Hardwood woodchips	Orig.	'000 tonnes	1,228	1,286	1,417	1,402	1,332	1,334	1,203	1,163	1,128	-3.0	-15.3
		S. adj. r	"	1,223	1,223	1,424	1,477	1,324	1,269	1,211	1,224	1,120	-8.5	-15.4
		Trend r	"	1,171	1,291	1,392	1,420	1,364	1,277	1,225	1,189	1,152	-3.1	-15.5
Q8	Alumina(d)	Orig.	"	3,209	3,235	3,203	3,203	3,299	3,348	3,297	3,311	n.y.a.	0.4	3.4
		S. adj. r	"	3,217	3,197	3,204	3,232	3,308	3,307	3,302	3,337	n.y.a.	1.1	3.3
		Trend r	"	3,204	3,204	3,210	3,245	3,284	3,306	3,317	3,324	n.y.a.	0.2	2.4
Q9	Zinc(d)	Orig.	"	81	82	78	72	81	82	85	81	n.y.a.	-4.7	12.5
		S. adj.	"	n.p.	n.p.	n.p.								
		Trend r	"	82	80	77	77	78	81	84	85	n.y.a.	1.3	10.2
Q10	Silver(d)	Orig.	"	104	88	79	93	89	89	75	90	n.y.a.	20.0	-3.2
		S. adj. r	"	96	88	84	95	83	89	80	91	n.y.a.	12.8	-4.5
		Trend r	"	93	90	88	88	87	85	85	87	n.y.a.	2.1	-1.3
Q11	Copper(d)	Orig.	'000 tonnes	87	87	68	71	55	80	65	70	n.y.a.	7.7	-1.4
		S. adj. r	"	89	80	69	75	56	73	67	74	n.y.a.	10.8	-1.9
		Trend r	"	85	81	73	68	66	67	69	73	n.y.a.	5.1	7.9
Q12	Lead(d)	Orig.	"	53	49	55	53	49	57	56	54	n.y.a.	-3.6	1.9
		S. adj. r	"	49	48	54	59	46	56	55	59	n.y.a.	7.6	0.6
		Trend r	"	53	51	52	54	53	53	56	58	n.y.a.	4.2	8.5
Q13	Tin(d)	Orig.	"	90	75	135	180	65	165	160	89	n.y.a.	-44.4	-50.6
		S. adj.	"	n.p.	n.p.	n.p.								
		Trend r	"	59	106	136	138	140	143	145	137	n.y.a.	-6.1	-1.2
Q14	Gold(d)	Orig.	"	79	78	71	74	74	75	75	85	n.y.a.	12.8	14.3
		S. adj.	"	n.p.	n.p.	n.p.								
		Trend r	"	76	76	75	73	73	75	78	82	n.y.a.	5.1	12.1

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

(b) Source: Australian Dairy Corporation.

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

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

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

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

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

WHAT IF...? Revisions to Trend Estimates

THE EFFECT OF NEW SEASONALLY ADJUSTED ESTIMATES

Each time new seasonally adjusted estimates become available, trend estimates are revised (see paragraphs 12 to 14 of the Explanatory Notes).

TREND REVISIONS

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

- 1** The August seasonally adjusted estimate is the same as the July estimate.
- 2** The August seasonally adjusted estimate is higher than the July estimate by 5%.
- 3** The August seasonally adjusted estimate is lower than the July estimate by 5%.
- 4** The August seasonally adjusted estimate results in a revised July trend estimate which is identical to the new August trend estimate.

The percentage change of 5% was chosen because it represents the average absolute monthly percentage change for this series over the last 30 years.

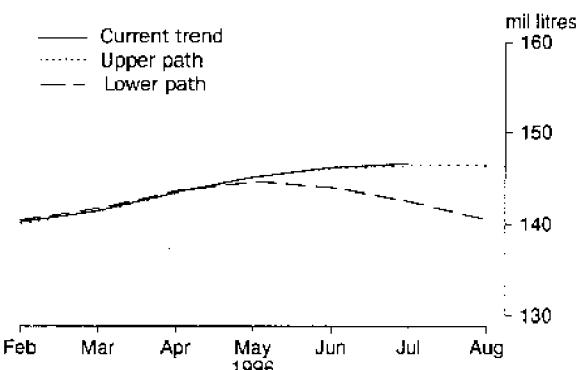
M11 BEER TREND SERIES (million litres)

WHAT IF NEXT MONTH'S SEASONALLY ADJUSTED ESTIMATE IS:

		1 140 <i>i.e. the same as Jul 1996</i>	2 147 <i>i.e. rises by 5%</i>	3 133 <i>i.e. falls by 5%</i>	4 148 <i>i.e. same trend for Jul & Aug</i>
1996	TREND as PUBLISHED				
May		145	145	145	145
June		146	145	146	144
July		147	145	147	143
August (new)		—	143	146	140
					147

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 BEER



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 Australian Bureau of Agricultural and Resource Economics (ABARE), the Australian Dairy Corporation (ADC), the Australian Tobacco Marketing Committee (until April 1995) and from ABS agriculture collections. Scope and coverage varies slightly depending on the source of the information.
- 3** Where production statistics are collected by the ABS manufacturing production surveys, they are not collected from single establishment manufacturing businesses with less than four persons employed nor from establishments predominantly engaged in non-manufacturing activities but which may carry out some manufacturing in a minor way. However, in general, the contribution of these small producers to statistical aggregates is only marginal and data contained in this publication provide reliable information for the evaluation of movements in commodity production.
- 4** The statistics on meat production include data collected from abattoirs and other major slaughtering establishments and include estimates of animals slaughtered on farms and by country butchers and other small slaughtering establishments for human consumption.
- 5** The statistics on chicken meat have been collected from commercial poultry slaughtering establishments. Producers in Tasmania, the Northern Territory and the Australian Capital Territory and the very small producers are excluded from the collection.
- 6** Data on the production of fuels, sawn timber and quarterly estimates of base metal production are obtained from the Australian Bureau of Agricultural and Resource Economics publications *Mineral Statistics* and *Forest Products Statistics*.
- 7** Data on the production of cheese and butter are obtained from the Australian Dairy Corporation publication *Dairystats*. Data on tobacco and cigarettes produced were obtained from the Australian Tobacco Marketing Committee until April 1995.

COMPARABILITY WITH OTHER ESTIMATES

- 8** The ABS publishes quarterly estimates of constant price manufacturing production in the publication *Quarterly Indexes of Industrial Production, Australia* (8125.0). These estimates are shown as index numbers and are derived mainly from estimates of manufacturers' sales and stocks.
- 9** The production statistics collected monthly and quarterly referred to in paragraph 1 account, in total, for less than half of the output of the manufacturing sector. For information on general trends in the manufacturing sector, refer to the publication referred to in paragraph 8.

EXPLANATORY NOTES *continued*

SEASONALLY ADJUSTED AND TREND ESTIMATES

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

11 Seasonal adjustment procedures do not aim to remove the irregular or non-seasonal influences which may be present in any particular month or quarter, such as the effect of strikes, holiday shutdowns or other factors which vary with the prevailing demand for products. Irregular influences that are highly volatile can make it difficult to interpret the movement of the series even after seasonal adjustment.

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

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

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

RELATED PUBLICATIONS

15 Other ABS publications which may be of interest are

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

EXPLANATORY NOTES *continued*

UNPUBLISHED STATISTICS

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

- domestic refrigerators
- domestic deep-freezers
- water heaters
- clothes drying machines
- domestic cooking stoves, ovens and ranges
- space heaters
- mowers
- air conditioners
- audio cassette tapes
- audio compact discs
- liquid supply or production meters
- brass bars, rods and sections
- strip for retreading rubber tyres
- electricity
- 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

17 Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

EFFECTS OF ROUNDING

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

APPENDIX : Clarification of Production Item Terms

M1 Red meat	Includes veal, pork and buffalo.
M2 Chicken meat	Expressed in the dressed weight of whole birds, pieces and giblets.
M3 Cheese	Includes fresh cheeses such as ricotta, cottage, cream and quark.
M4 Butter	Includes direct butter oil.
M5 Flour of wheat or of meslin	Excludes self raising flour.
M6 Prepared foods from cereals	Prepared foods obtained by the swelling or roasting of cereals or cereal products.
M7 Biscuits	Sweet biscuits and other biscuits, waffles, wafers and ginger bread; excludes dog biscuits.
M8 Chocolate based confectionery	Includes confectionery containing chocolate; excludes chocolate biscuits and chocolate intended for further manufacturing.
M9 Other confectionery	Excludes chocolate based confectionery.
M10 Malt	Includes malt flour.
M11 Beer	Includes ale and stout; excludes low alcohol beer containing less than 1.15% but more than 0.5%, by volume of alcohol.
M12 Tobacco and cigarettes	Includes those containing tobacco substitutes.
M13 Man-made fibre woven fabric	Broadwoven fabric of, or predominantly of, synthetic staple fibres and/or filament.
M14 Cotton woven fabric	Broadwoven fabric of, or predominantly of, cotton; excludes gauze.
M15 Cotton yarn	Of, or predominantly of cotton, reported on a single yarn basis; excludes sewing thread.
M16 Wool yarn	Of, or predominantly of, wool or fine animal hair.
M17 Wool woven fabric	Broadwoven woollen and worsted fabrics of, or predominantly of, wool or fine animal hair.
M18 Textile floor coverings	Consisting of carpets, carpeting (excluding underfelt), floor rugs, mats and matting of, or predominantly of, textile materials.
M19 Footwear	Includes sports and waterproof footwear; excludes thongs.
M21 Newsprint	Excludes directory paper, mechanical and printing paper.
M22 Wood pulp	Expressed as air-dried weight.
M23 Unlaminated particle board	Particle or similar boards of wood or other ligneous materials whether or not for subsequent conversions to other purposes; excludes fibreboard and fibre paperboard.
M25 Paperboard containers	Includes corrugated paperboard and solid paperboard containers.
M26 Automotive gasoline	Produced by Australian refineries from imported and indigenous petroleum .

APPENDIX : Clarification of Production Item Terms *continued*

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

APPENDIX : Clarification of Production Item Terms *continued*

M49 Gas	Gas (including natural gas) available for issue through mains. From July 1996, includes gas production for distribution via natural gas pipelines which service a single user.
Q1 Men's and boys' long trousers	Excludes jeans and waterproof trousers and trousers made as part of a complete suit.
Q2 Women's and girls' long trousers	Excludes jeans and waterproof trousers.
Q3 Jeans	Men's, women's, boys' and girls' jeans; excludes shorts.
Q4 Men's and boys' shirts	Excludes sweatshirts and nightshirts.
Q5 Women's shirts and blouses	Excludes sweatshirts and nightshirts.
Q6 Undressed sawn timber	Expressed in terms of green off saw volumes.
Q7 Hardwood woodchips	Expressed as greenweight; excludes chips which are not sold or are used in own works.
Q8 Alumina	Aluminium oxide.
Q9 Zinc	Primary origin only.
Q10 Silver	Refined..
Q11 Copper	Primary origin only.
Q12 Lead	Includes lead content of lead from primary sources.
Q13 Tin	Primary origin only.
Q14 Gold	From primary and secondary sources.



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