

CATALOGUE NUMBER 8301.0
EMBARGOED UNTIL 11:30 A.M. 2 February 1996

MANUFACTURING PRODUCTION, AUSTRALIA DECEMBER 1995

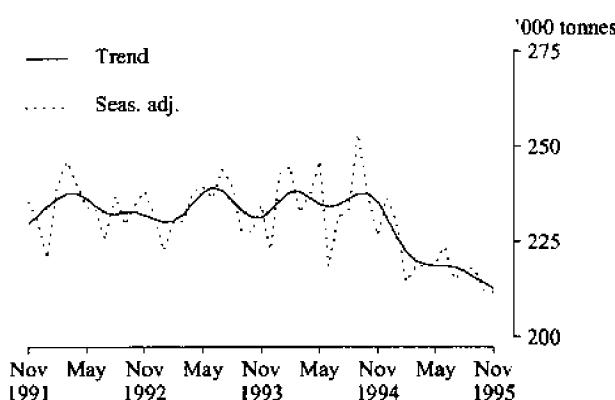
NOTES

This publication presents monthly and quarterly estimates of selected major indicators of manufacturing production for Australia. There are two graphs shown below for each 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.

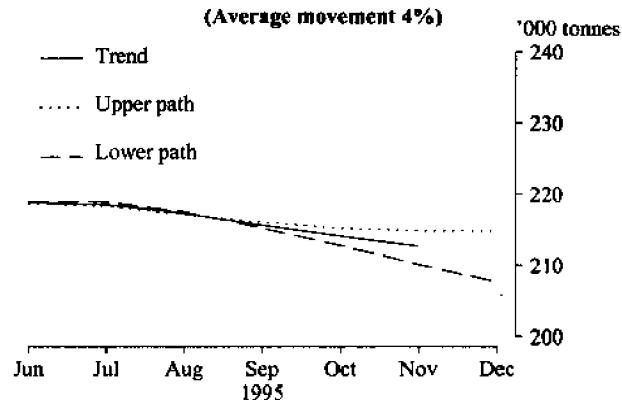
W. McLennan
Australian Statistician

PRODUCTION STATISTICS, AUSTRALIA: LONGER TERM TRENDS(a) AND SHORT TERM SENSITIVITY ANALYSIS

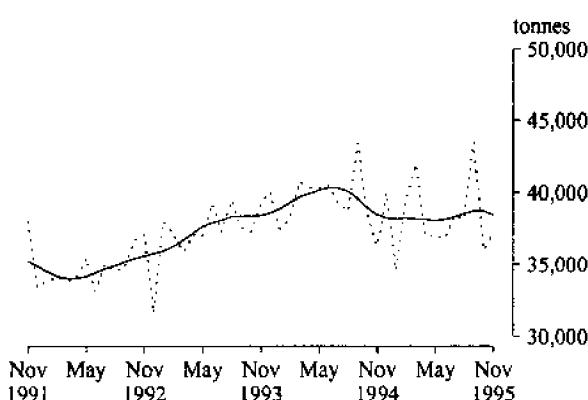
M1. RED MEAT



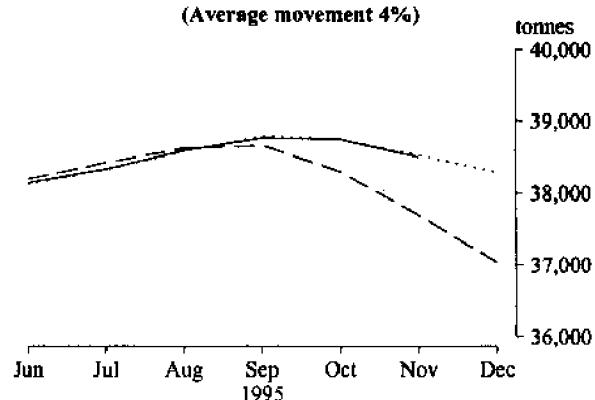
M1. RED MEAT
(Average movement 4%)



M2. CHICKEN MEAT



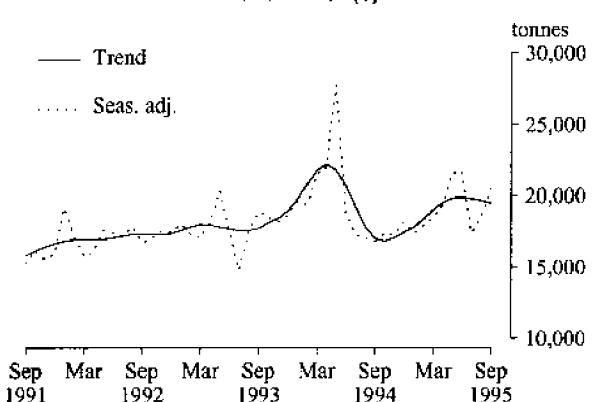
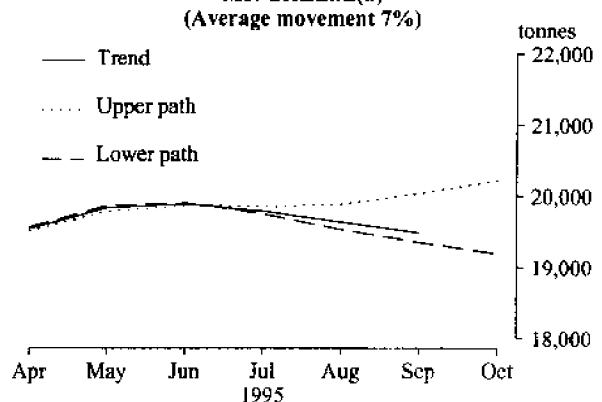
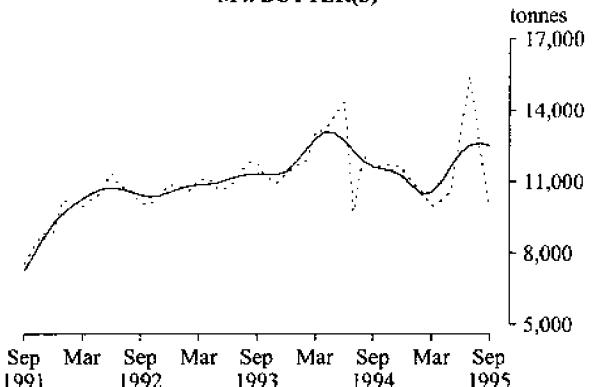
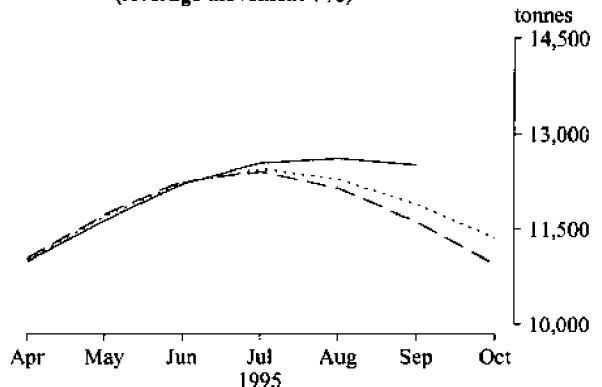
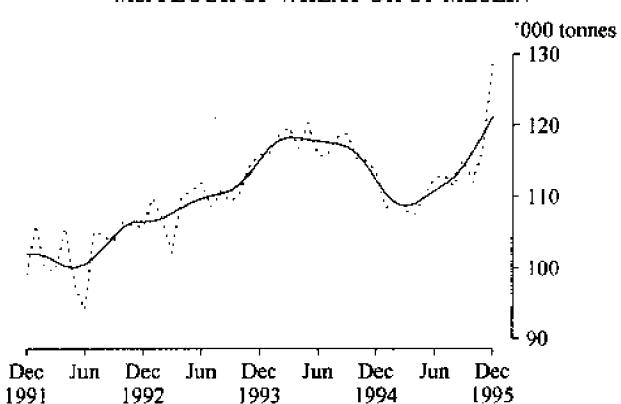
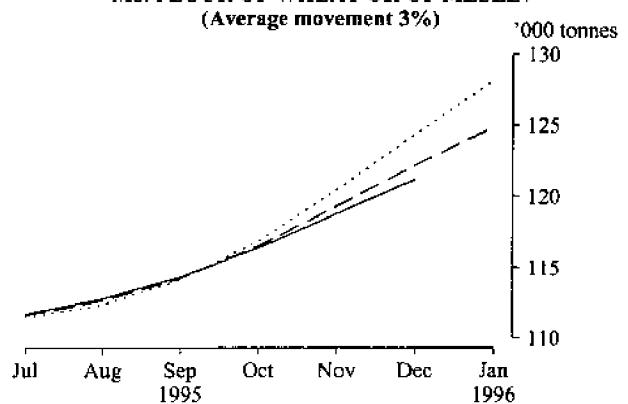
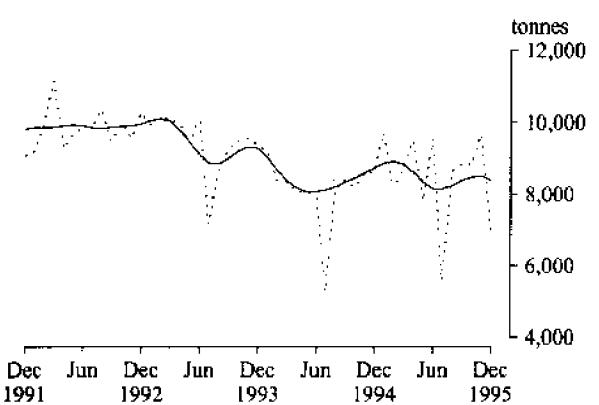
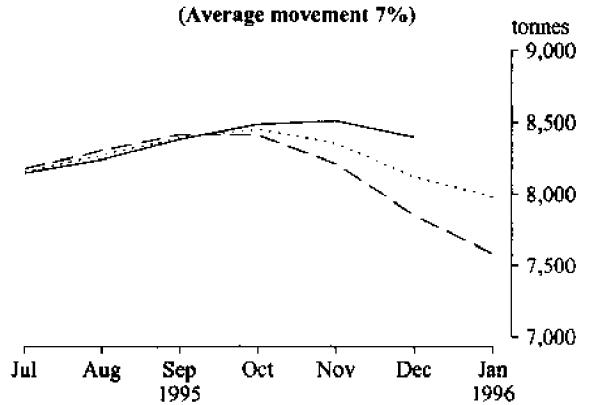
M2. CHICKEN MEAT
(Average movement 4%)

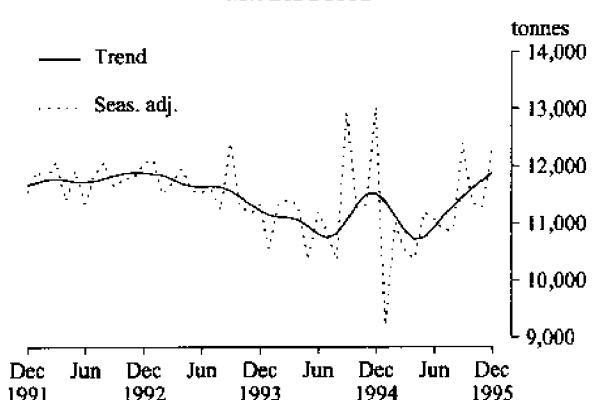
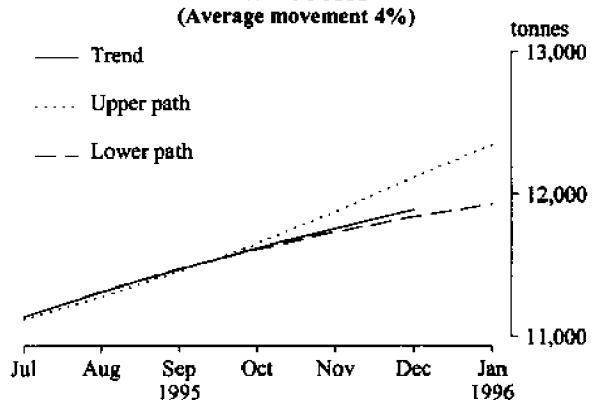
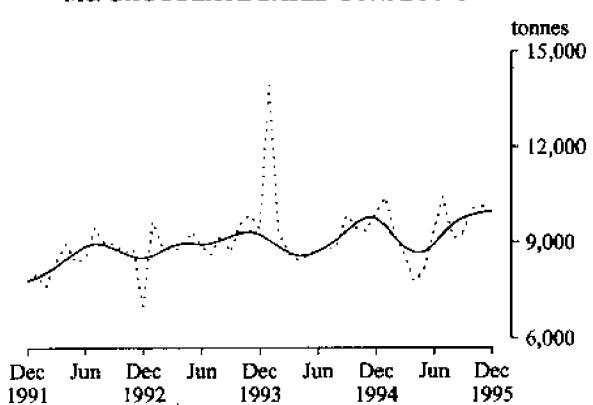
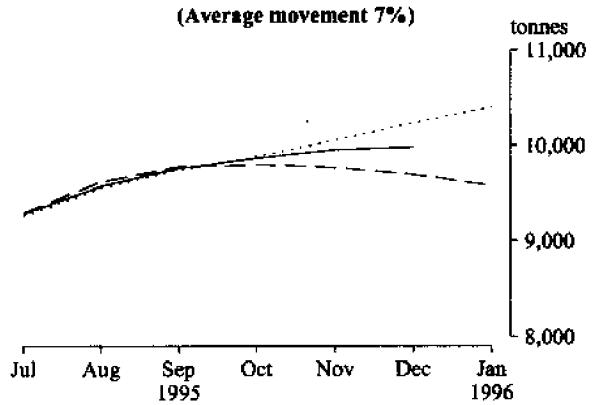
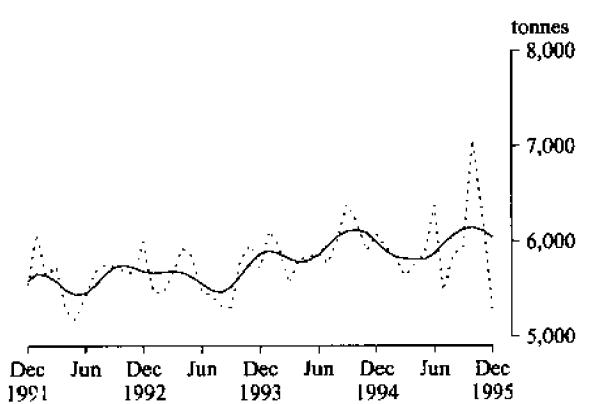
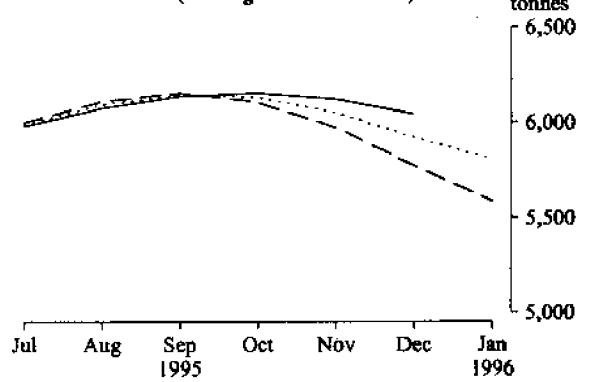
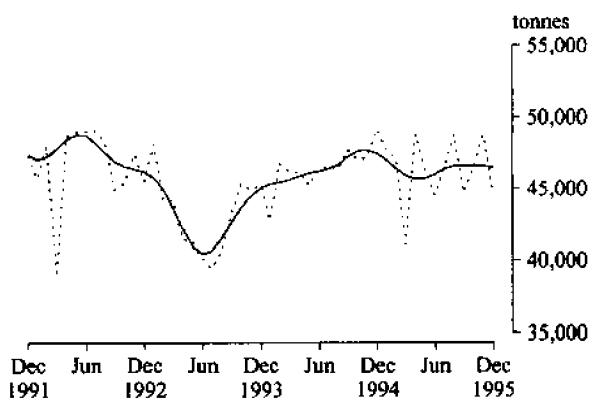
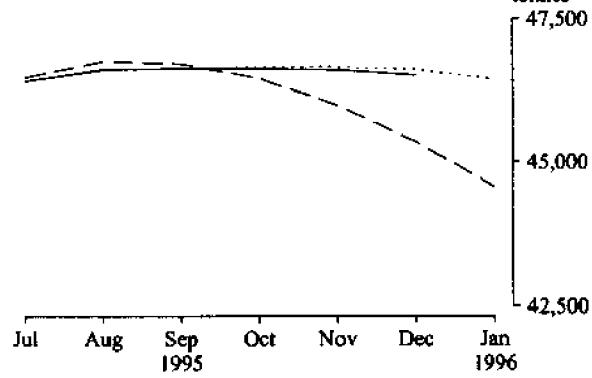


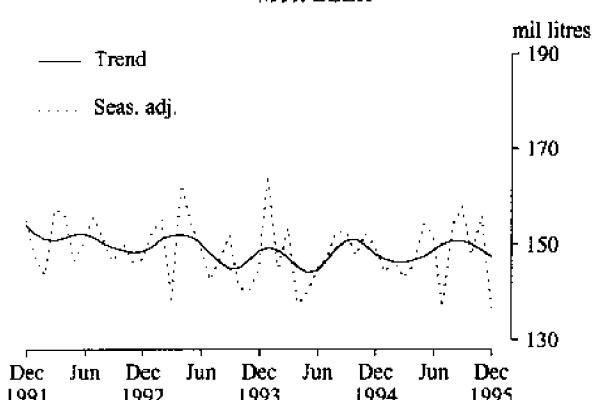
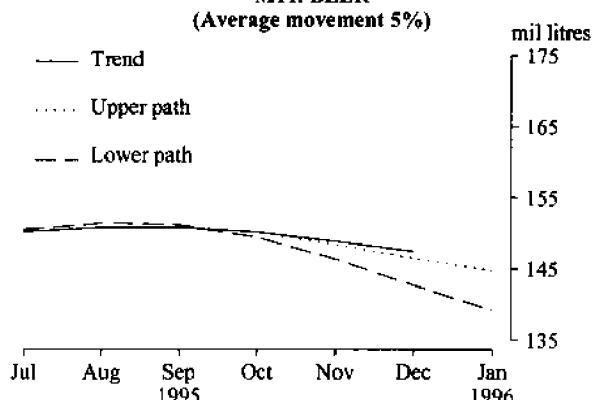
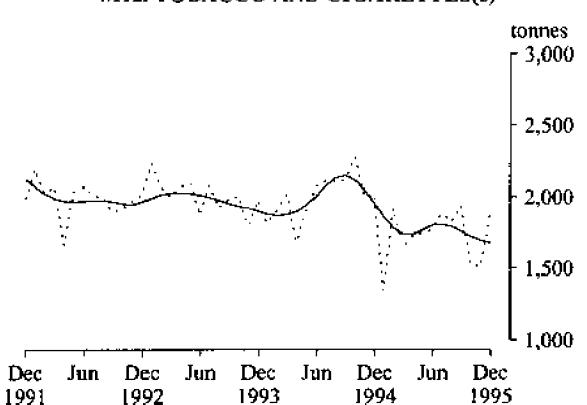
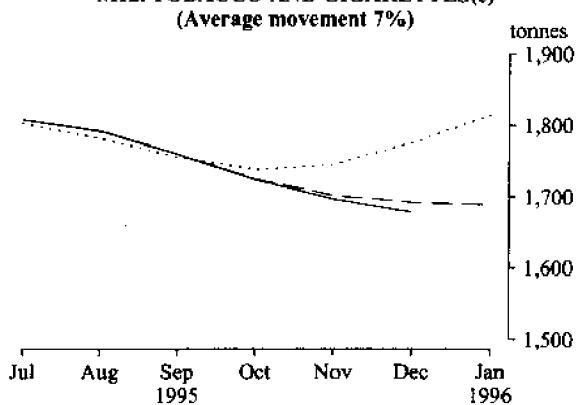
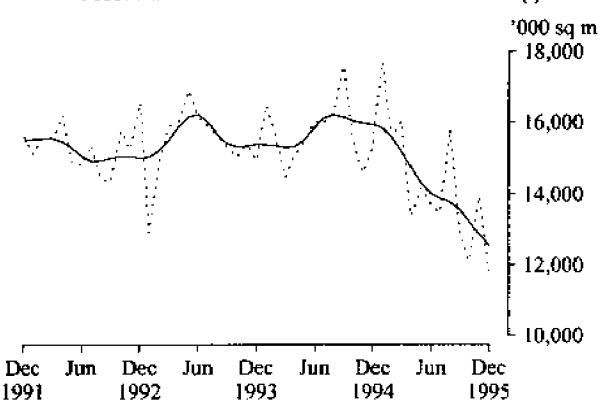
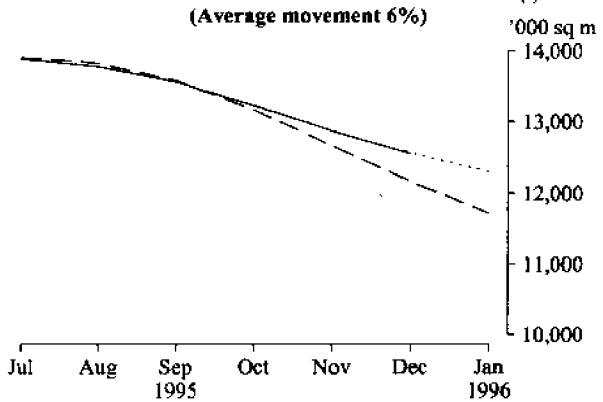
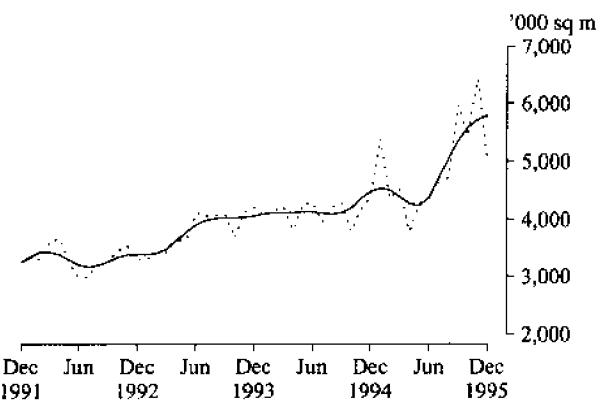
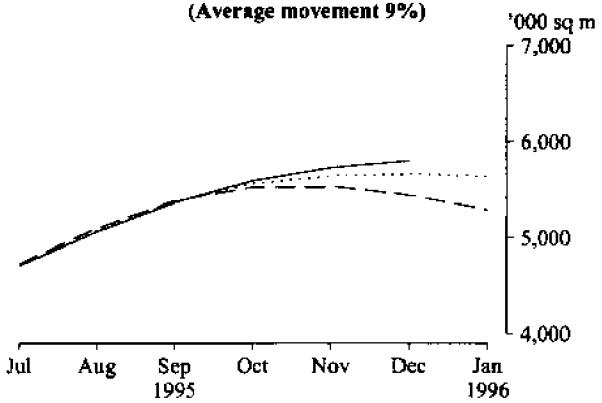
For footnotes see end of tables.

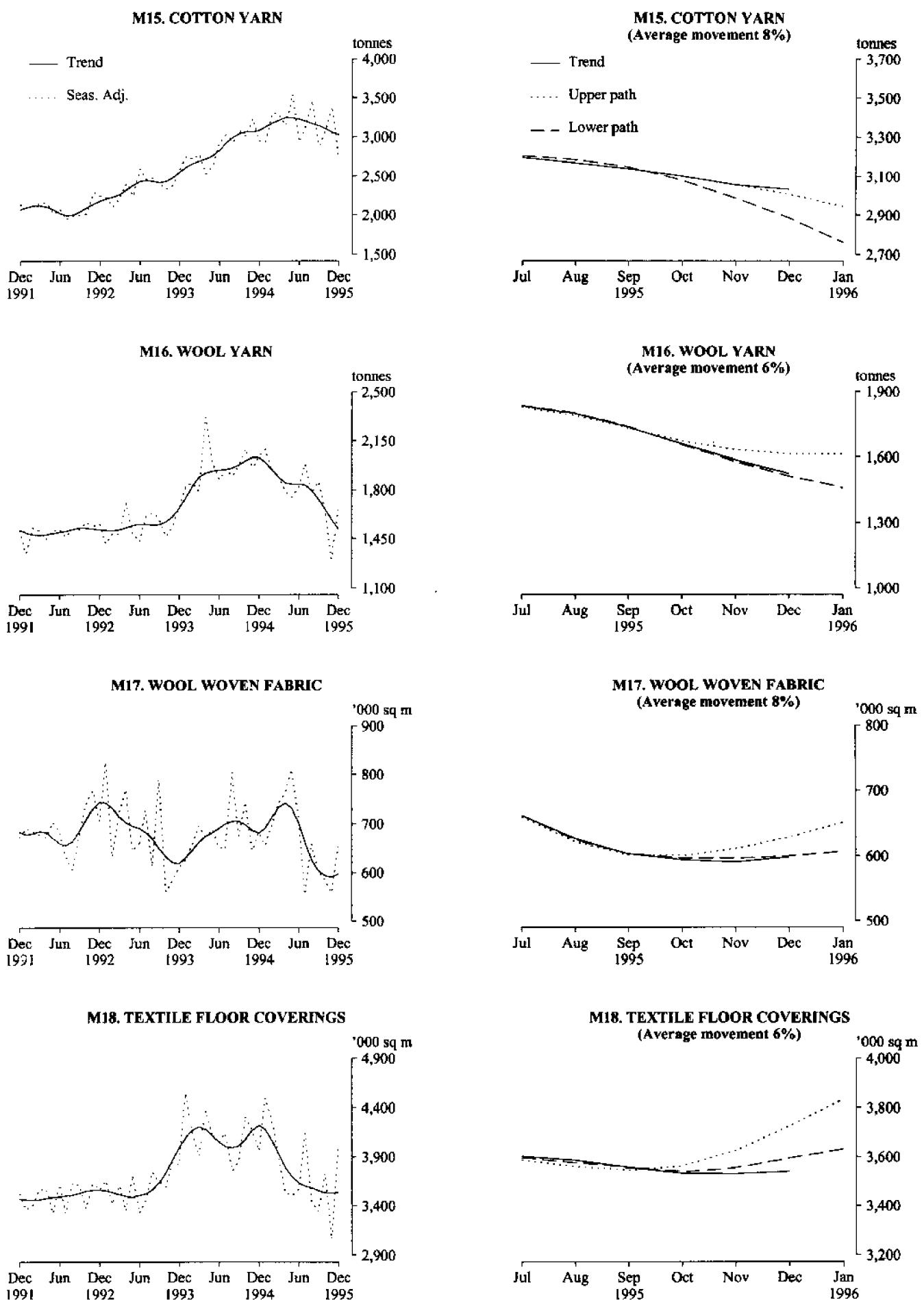
INQUIRIES

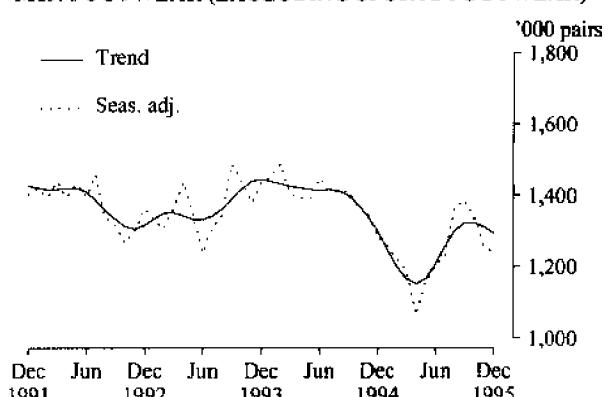
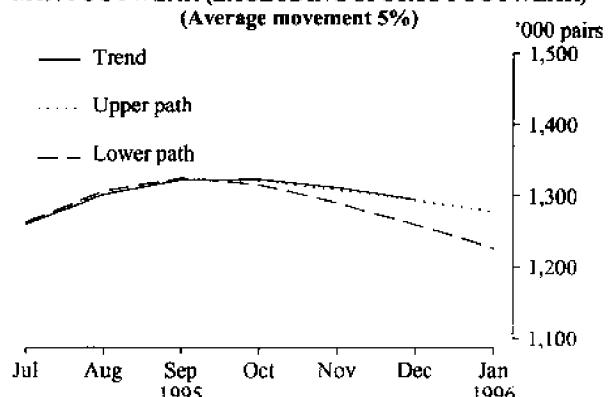
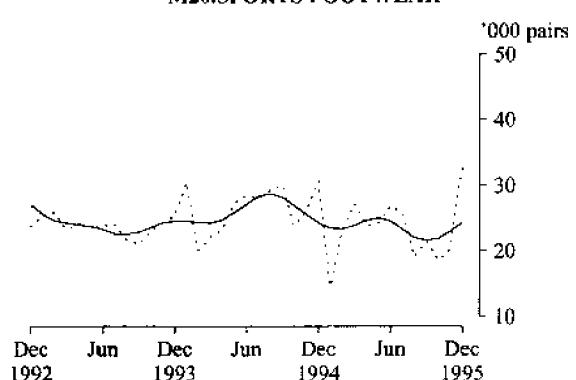
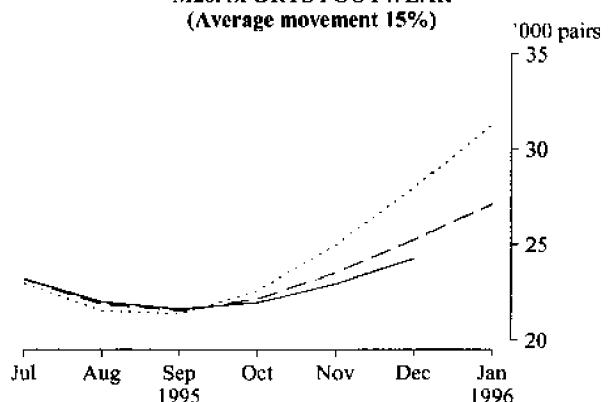
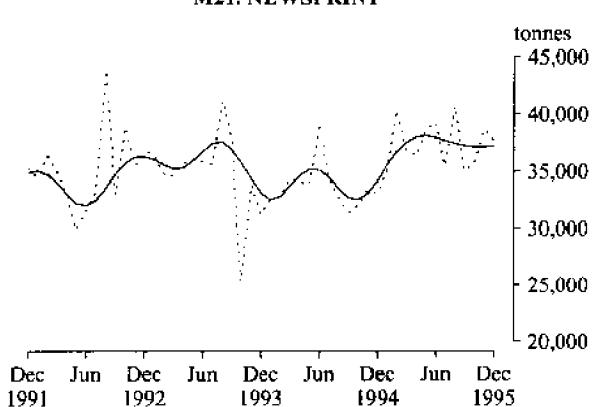
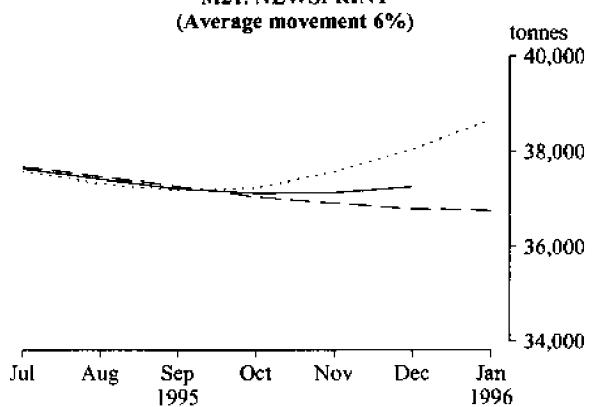
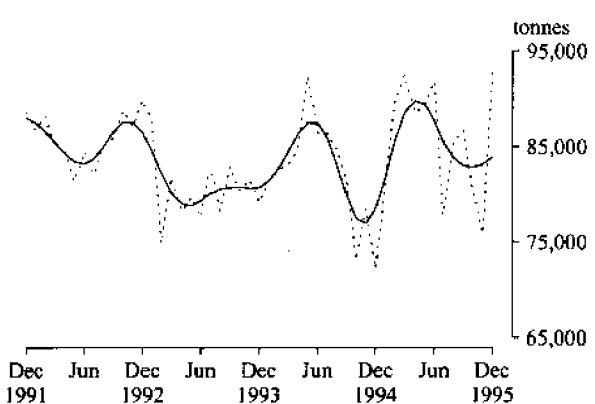
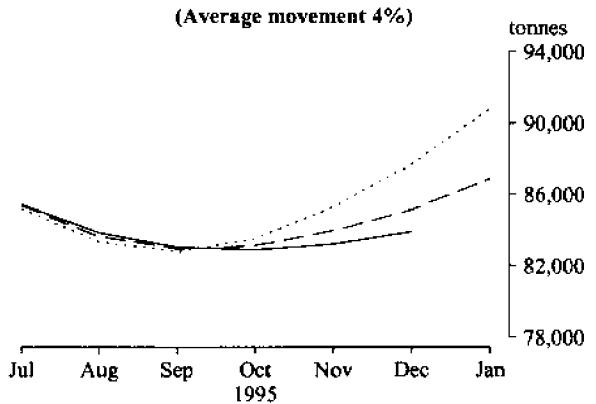
- for further information about statistics in this publication and the availability of related unpublished statistics, contact Jeffrey Middleton on Sydney (02) 268 4541.
- for information about other ABS statistics and services please refer to the back page of this publication.

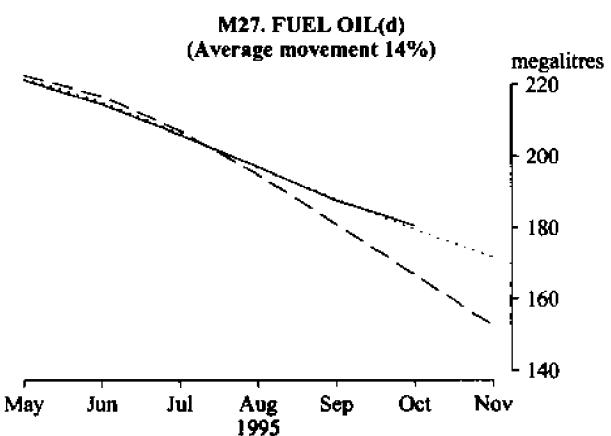
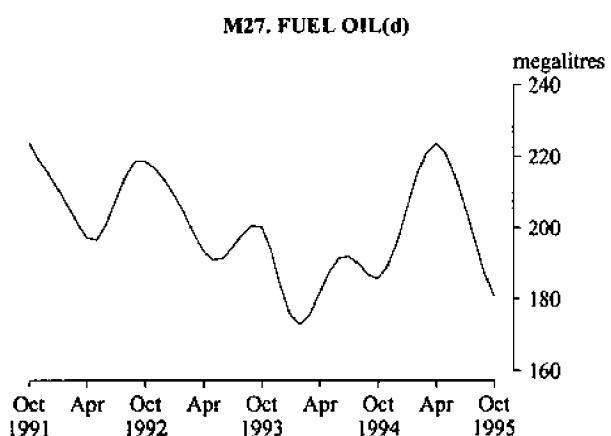
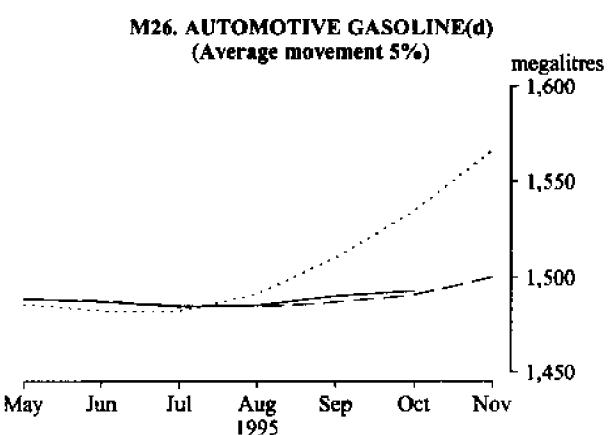
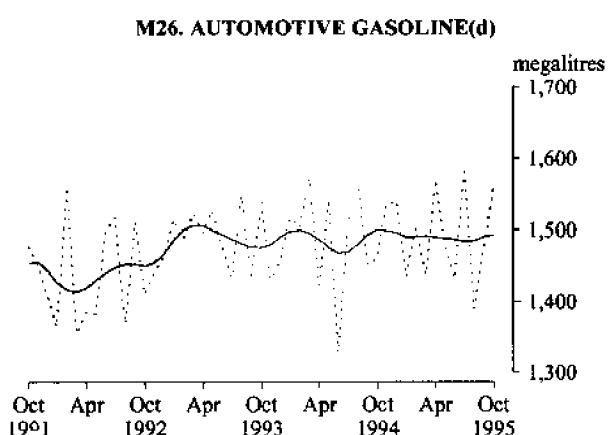
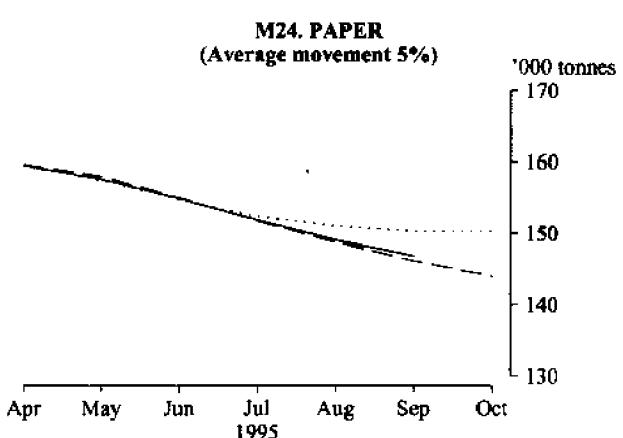
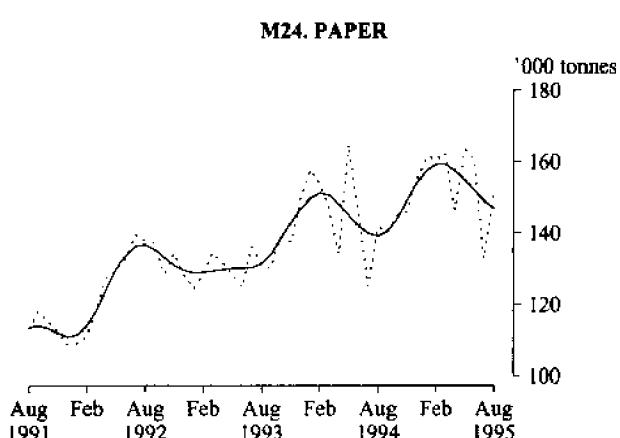
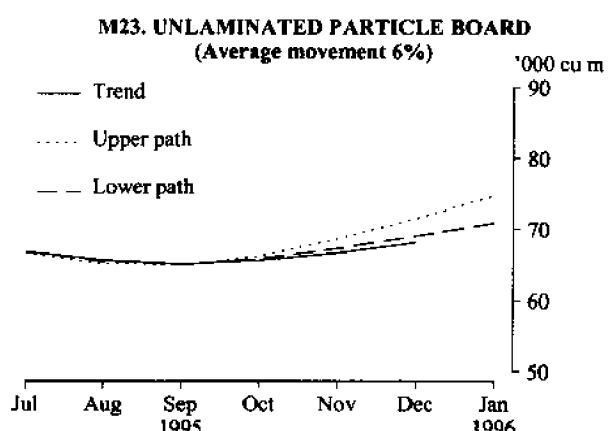
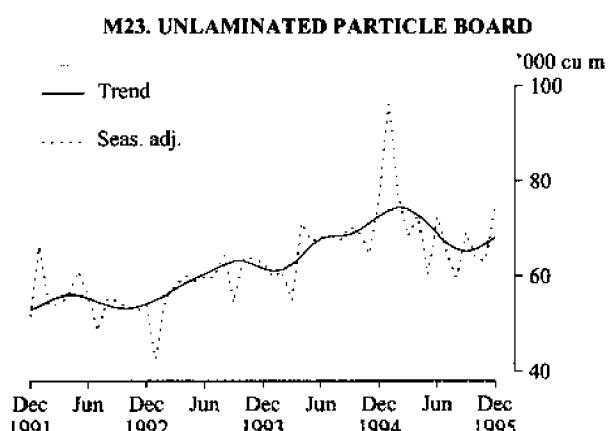
M3. CHEESE(b)**M3. CHEESE(b)
(Average movement 7%)****M4. BUTTER(b)****M4. BUTTER(b)
(Average movement 7%)****M5. FLOUR OF WHEAT OR OF MESLIN****M5. FLOUR OF WHEAT OR OF MESLIN
(Average movement 3%)****M6. PREPARED FOODS FROM CEREALS****M6. PREPARED FOODS FROM CEREALS
(Average movement 7%)**

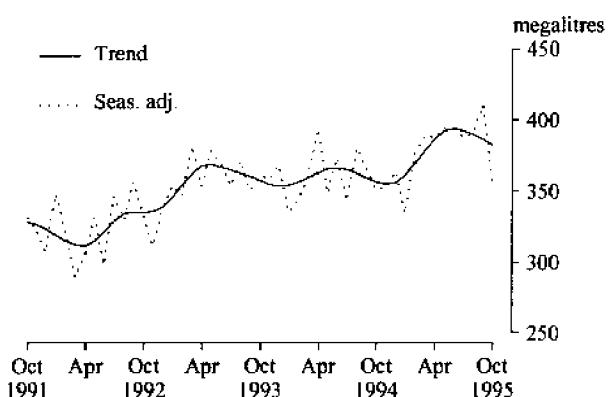
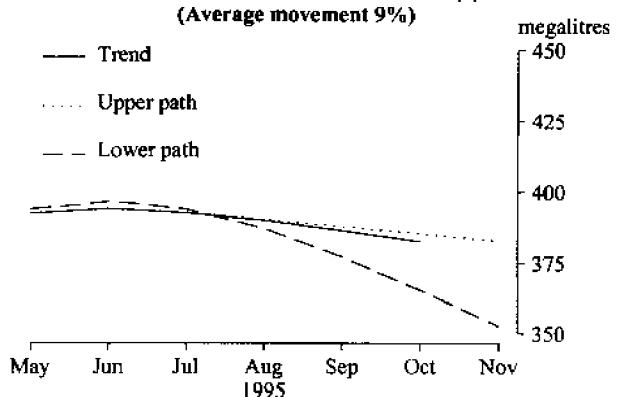
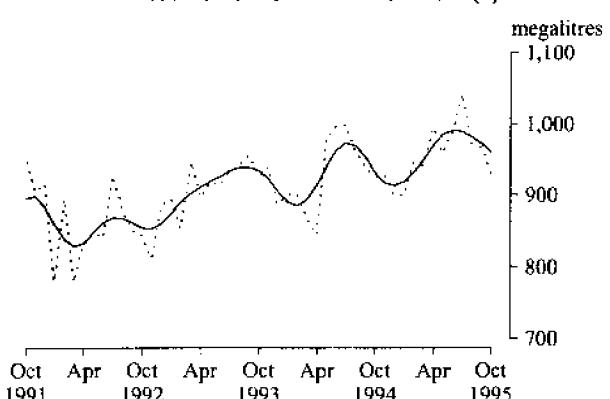
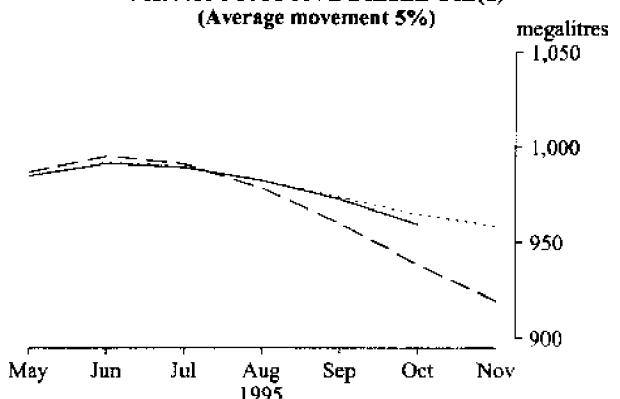
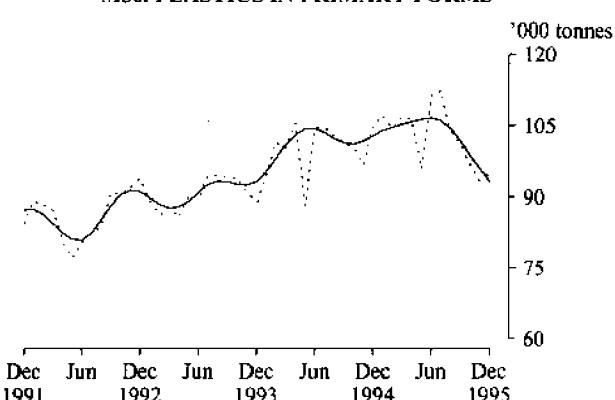
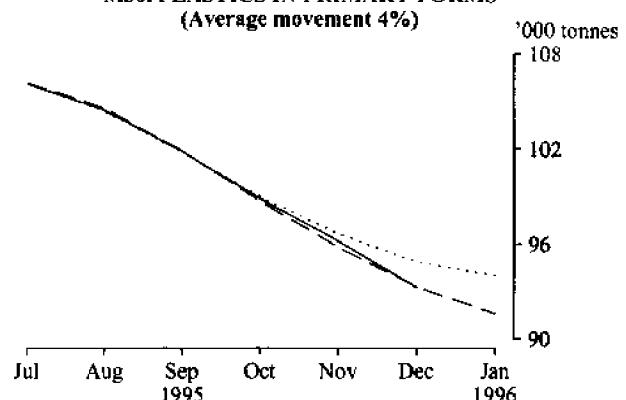
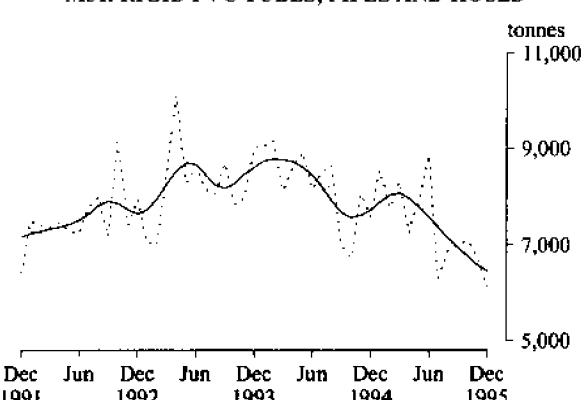
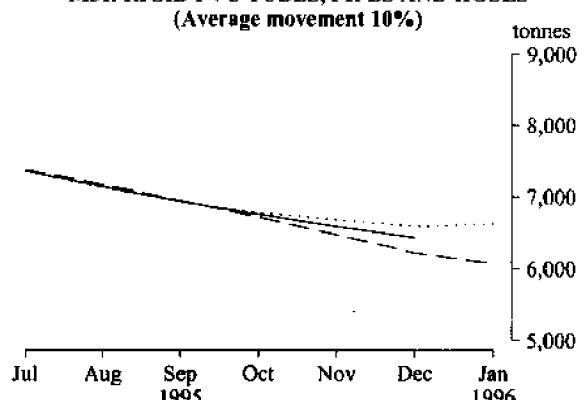
M7. BISCUITS**M7. BISCUITS****M8. CHOCOLATE BASED CONFECTIONERY****M8. CHOCOLATE BASED CONFECTIONERY****M9. OTHER CONFECTIONERY****M9. OTHER CONFECTIONERY
(Average movement 5%)****M10. MALT****M10. MALT
(Average movement 5%)**

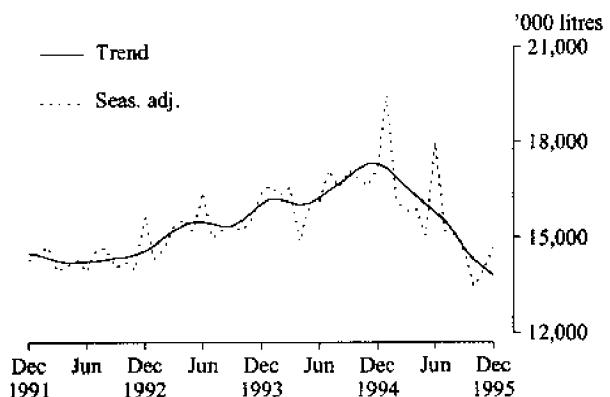
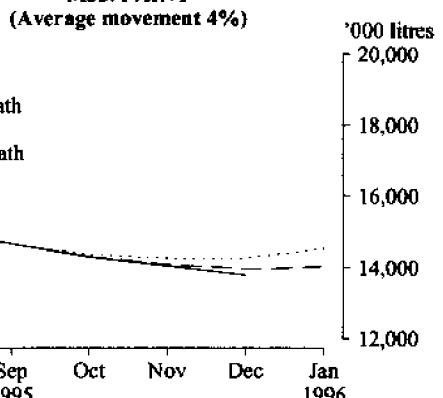
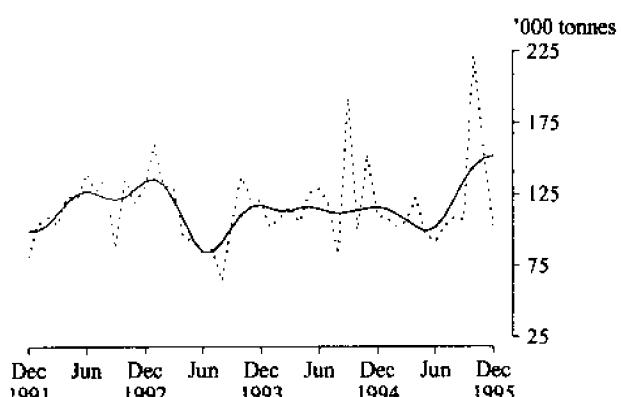
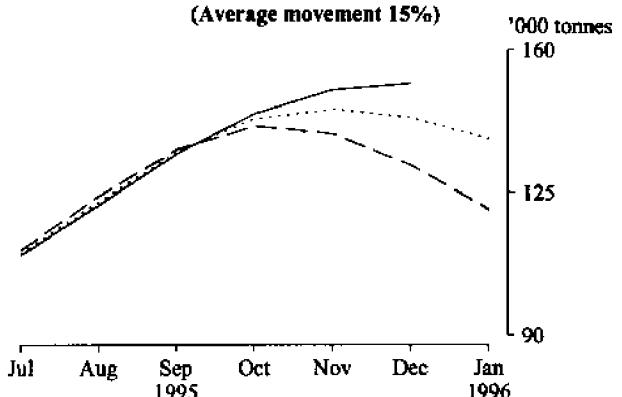
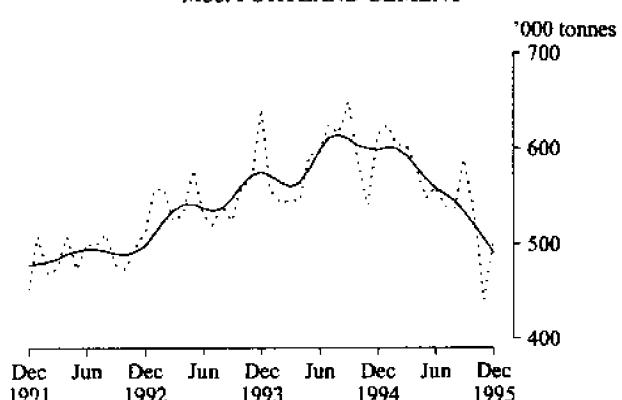
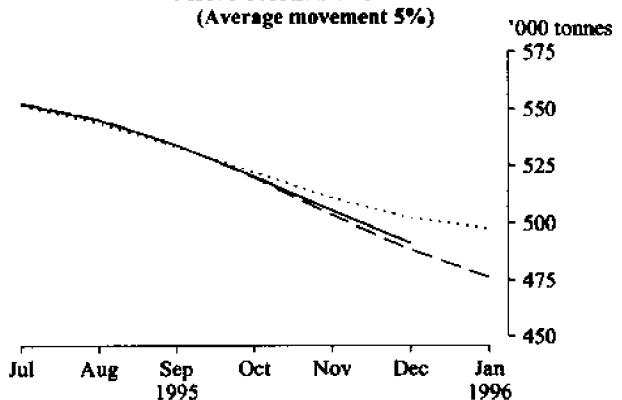
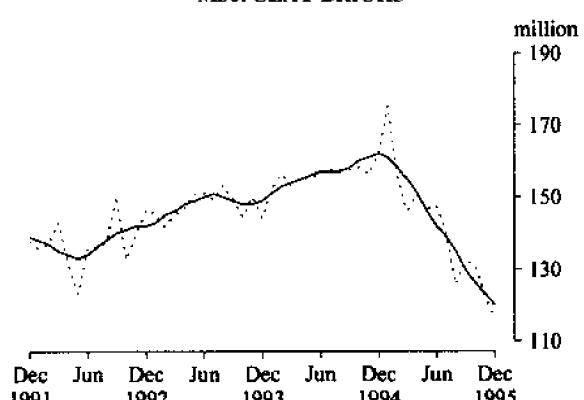
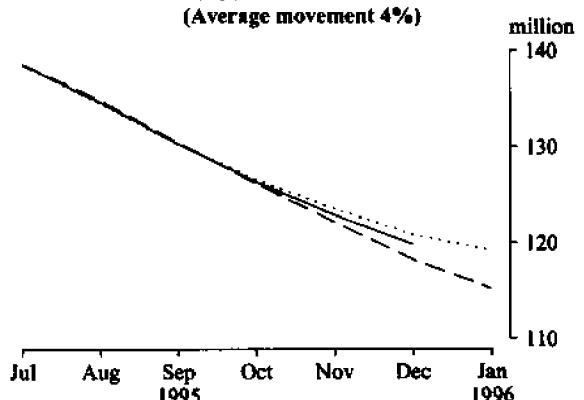
M11. BEER**M11. BEER
(Average movement 5%)****M12. TOBACCO AND CIGARETTES(c)****M12. TOBACCO AND CIGARETTES(c)
(Average movement 7%)****M13. MAN-MADE FIBRE WOVEN FABRIC(f)****M13. MAN-MADE FIBRE WOVEN FABRIC(f)
(Average movement 6%)****M14. COTTON WOVEN FABRIC(f)****M14. COTTON WOVEN FABRIC(f)
(Average movement 9%)**

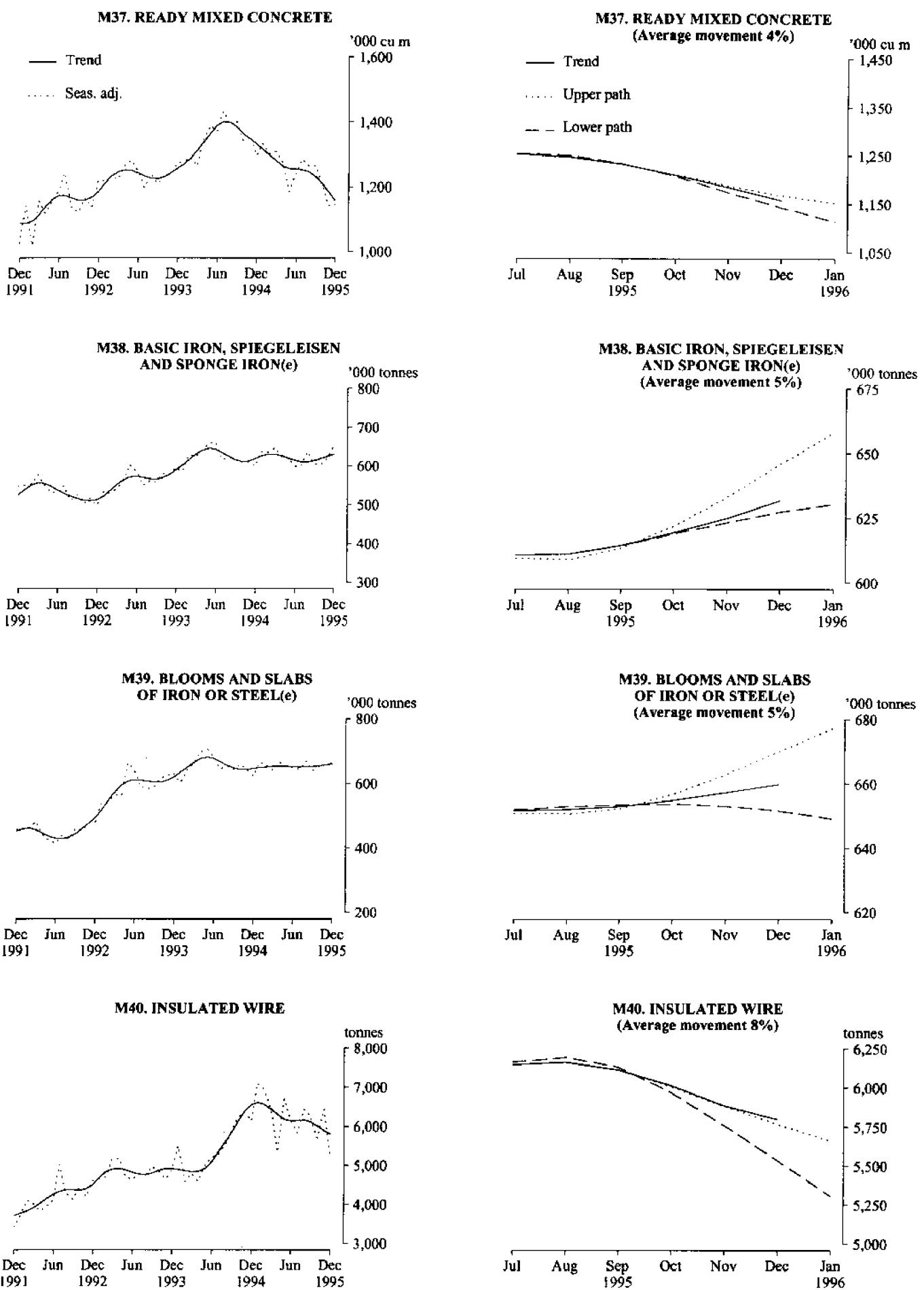


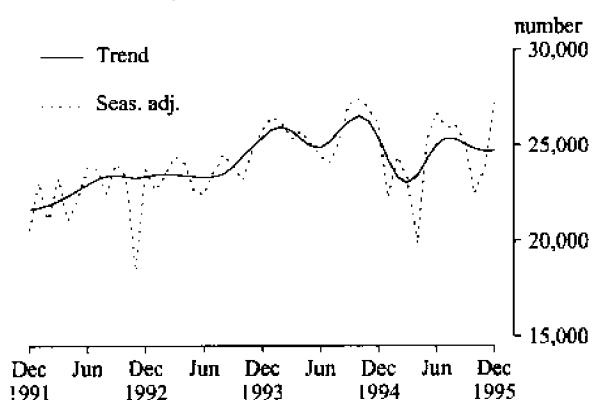
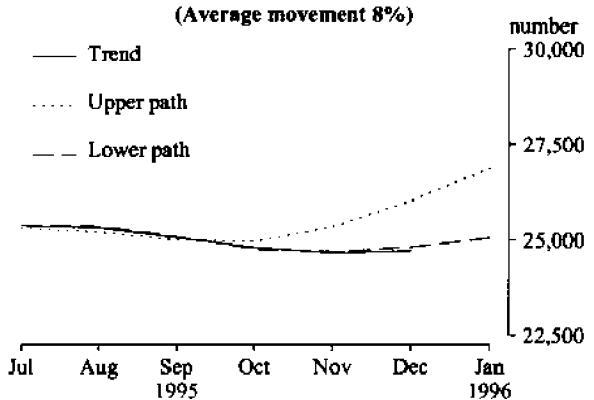
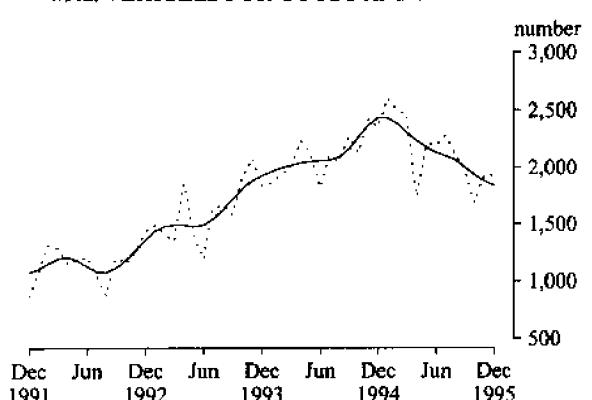
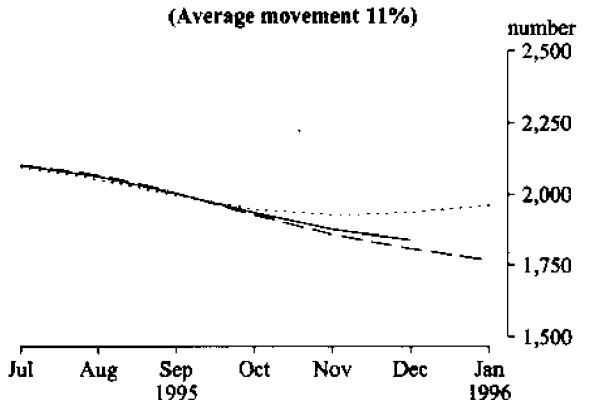
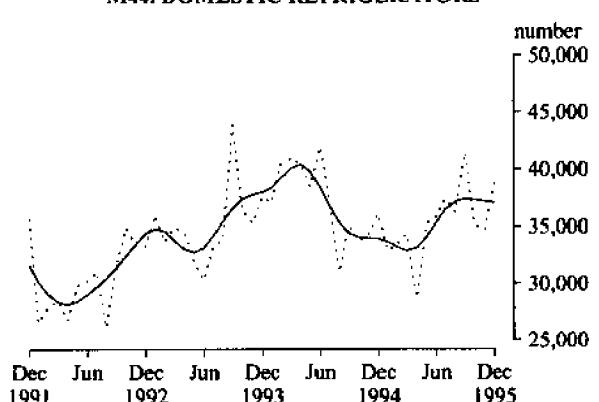
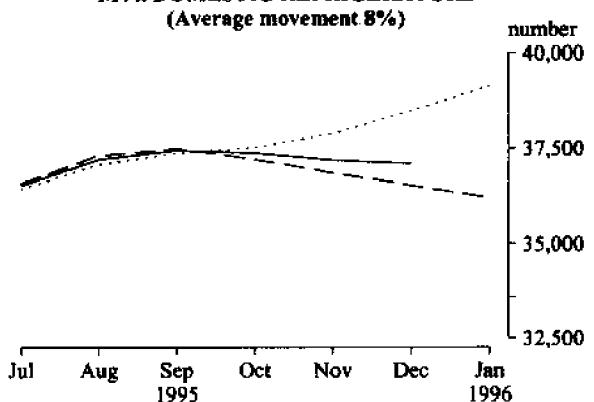
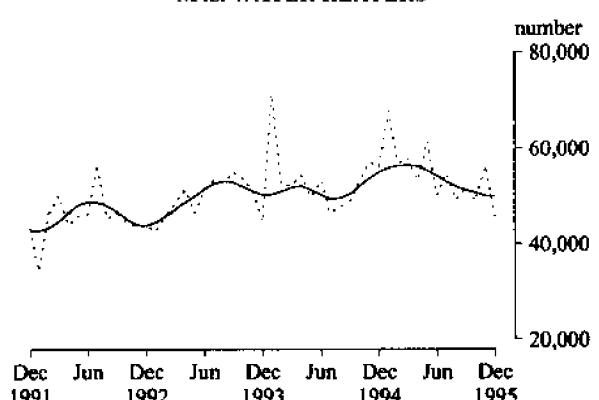
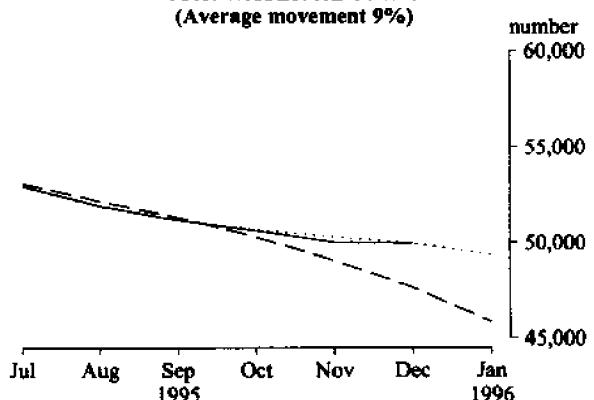
M19. FOOTWEAR (EXCLUDING SPORTS FOOTWEAR)**M19. FOOTWEAR (EXCLUDING SPORTS FOOTWEAR)
(Average movement 5%)****M20. SPORTS FOOTWEAR****M20. SPORTS FOOTWEAR
(Average movement 15%)****M21. NEWSPRINT****M21. NEWSPRINT
(Average movement 6%)****M22. WOOD PULP****M22. WOOD PULP
(Average movement 4%)**

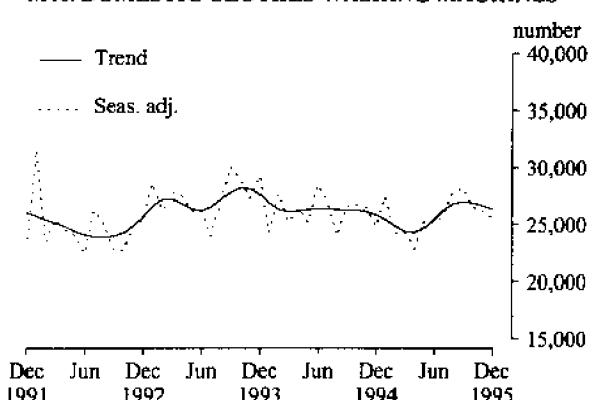
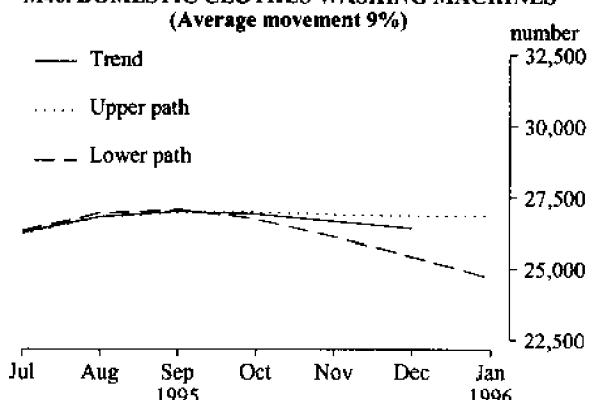
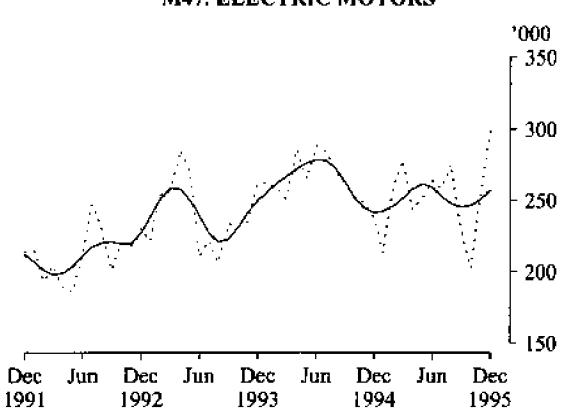
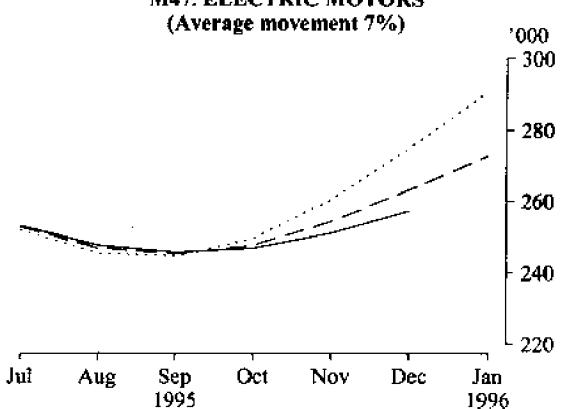
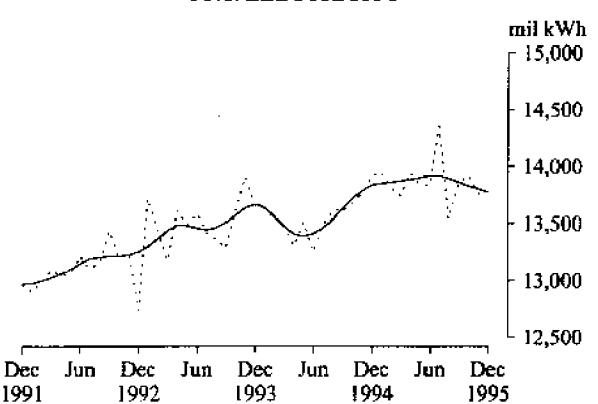
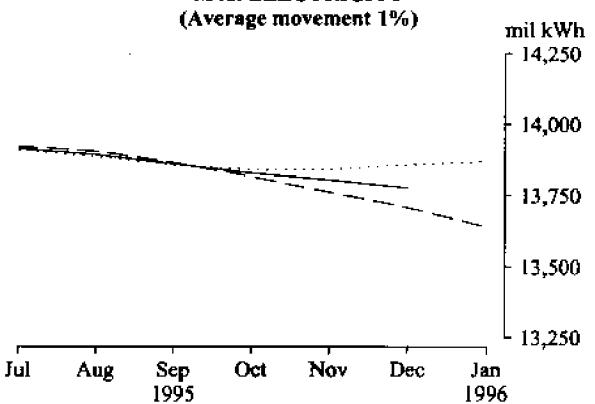
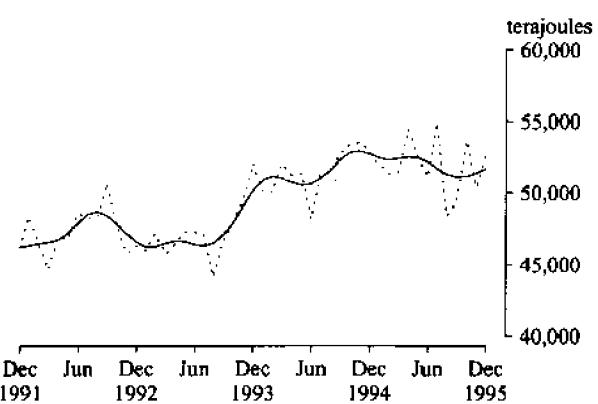
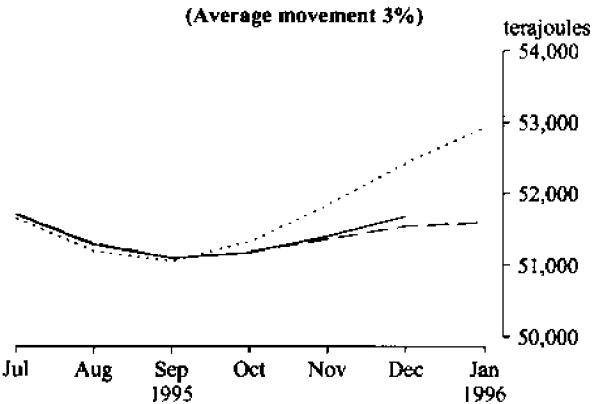


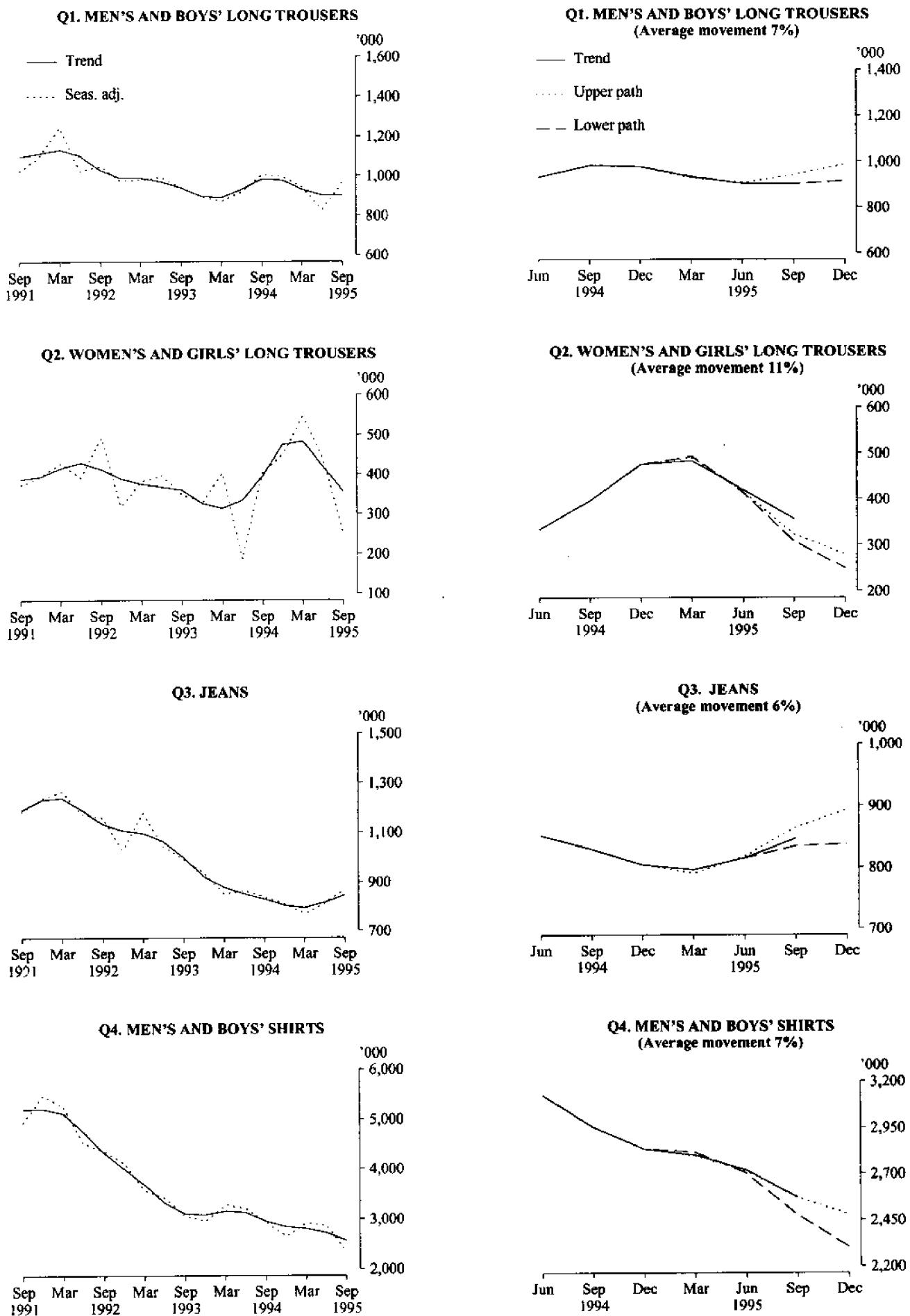
M28. AVIATION TURBINE FUEL(d)**M28. AVIATION TURBINE FUEL(d)
(Average movement 9%)****M29. AUTOMOTIVE DIESEL OIL(d)****M29. AUTOMOTIVE DIESEL OIL(d)
(Average movement 5%)****M30. PLASTICS IN PRIMARY FORMS****M30. PLASTICS IN PRIMARY FORMS
(Average movement 4%)****M31. RIGID PVC TUBES, PIPES AND HOSES****M31. RIGID PVC TUBES, PIPES AND HOSES
(Average movement 10%)**

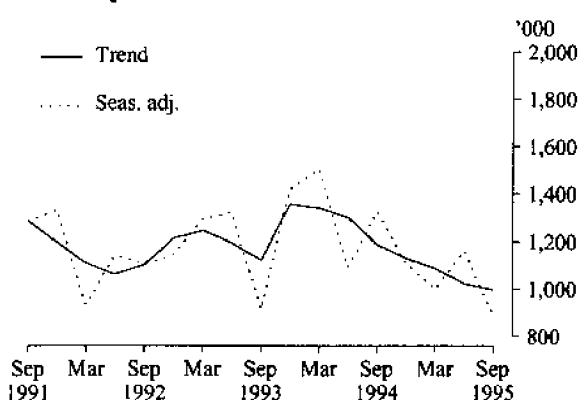
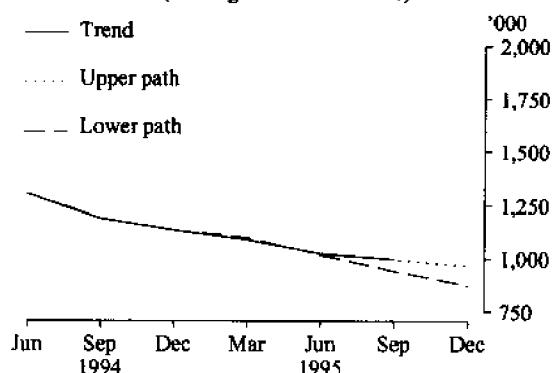
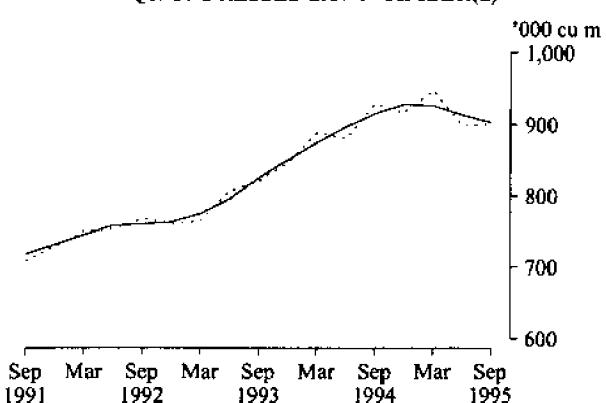
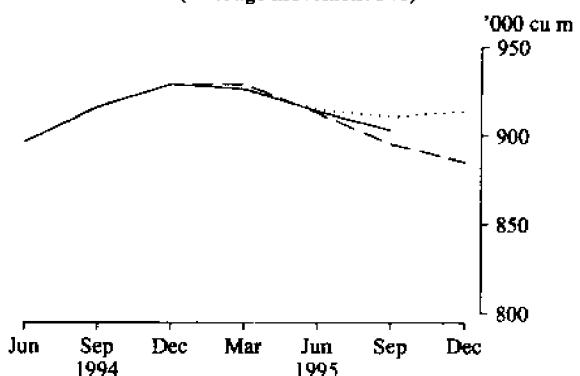
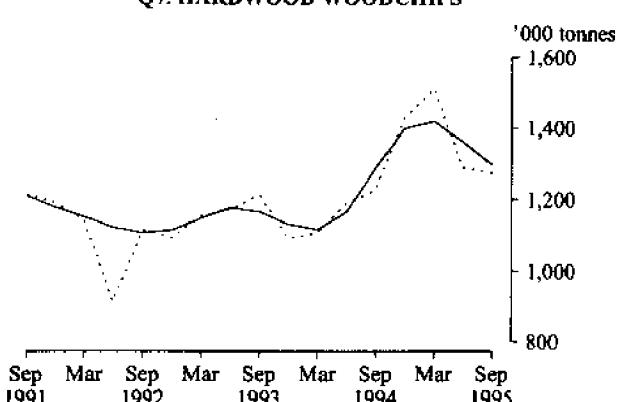
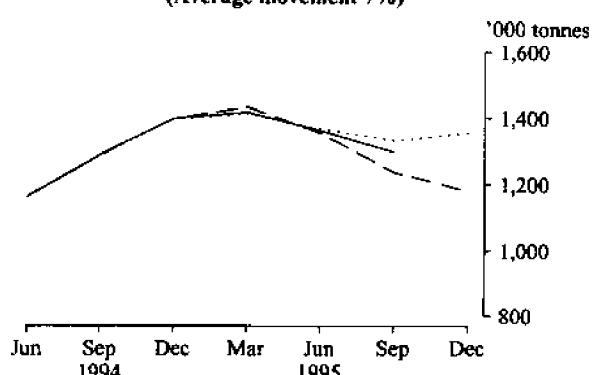
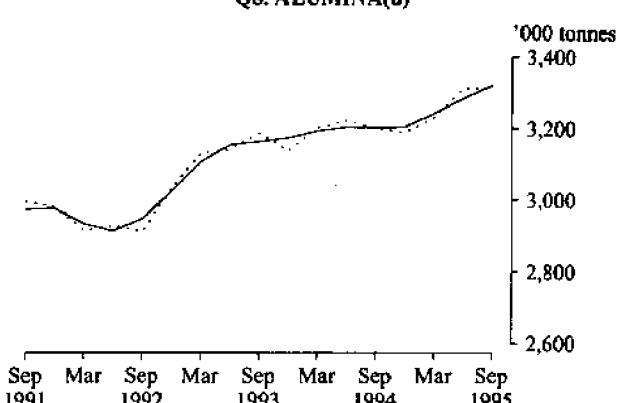
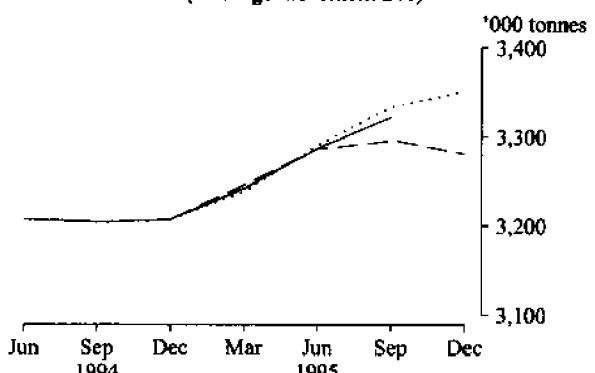
M33. PAINT**M33. PAINT****M34. SUPERPHOSPHATES****M34. SUPERPHOSPHATES**
(Average movement 15%)**M35. PORTLAND CEMENT****M35. PORTLAND CEMENT**
(Average movement 5%)**M36. CLAY BRICKS****M36. CLAY BRICKS**
(Average movement 4%)

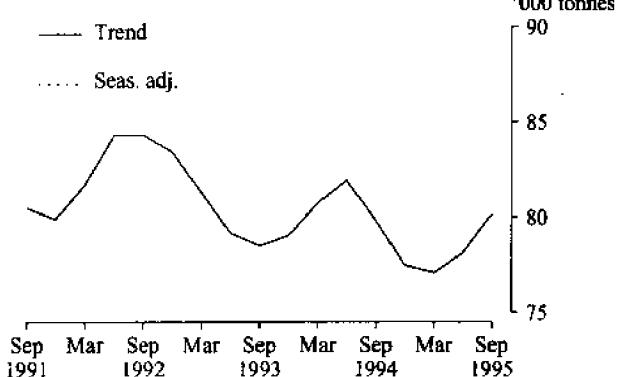
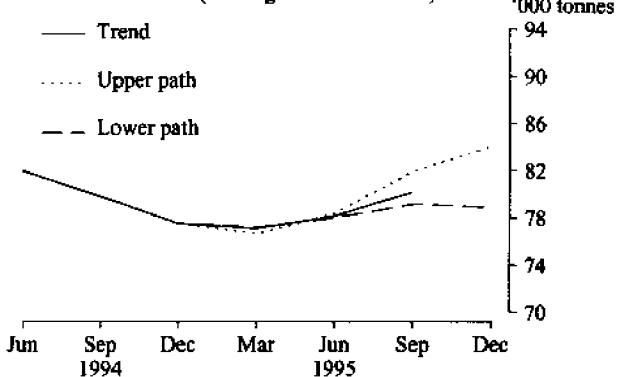
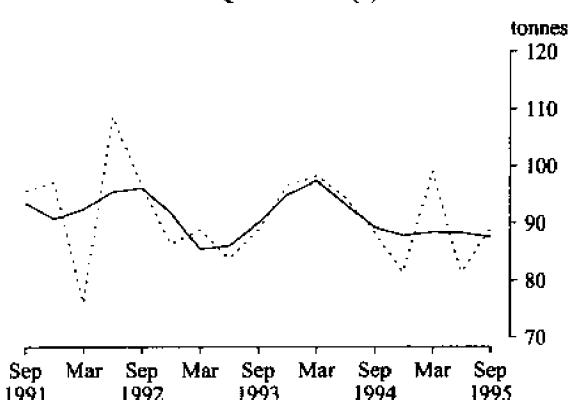
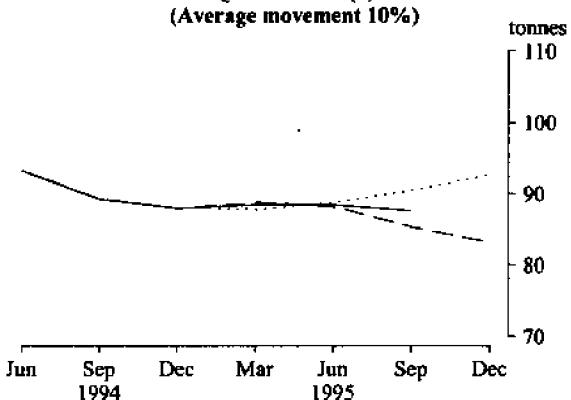
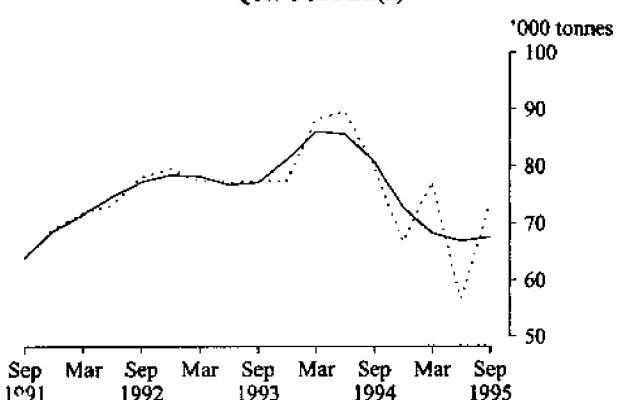
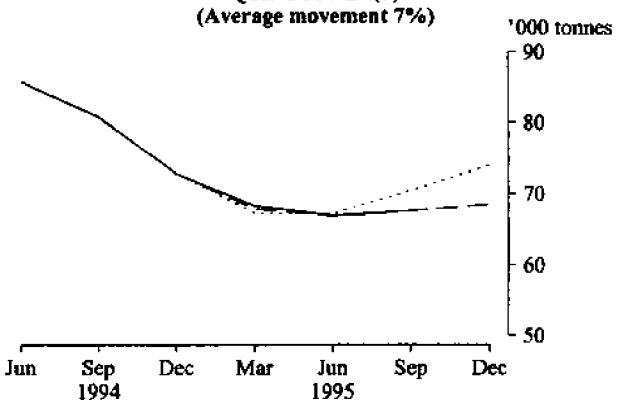
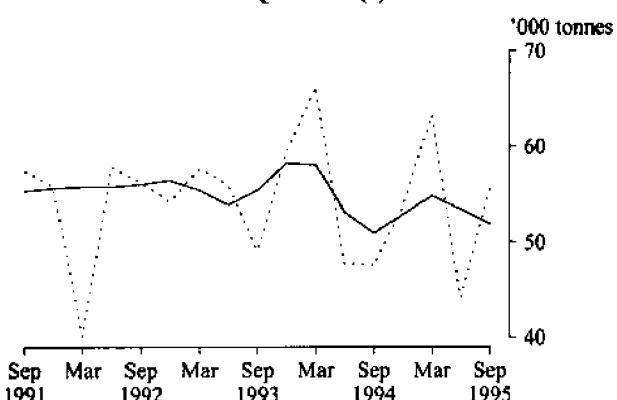
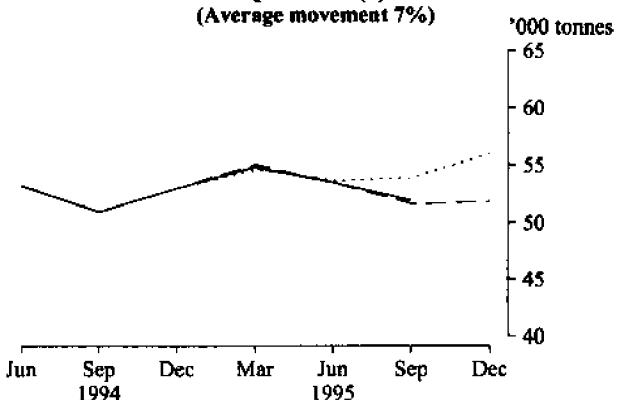


M41. CARS AND STATION WAGONS**M41. CARS AND STATION WAGONS**
(Average movement 8%)**M42. VEHICLES FOR GOODS AND MATERIALS****M42. VEHICLES FOR GOODS AND MATERIALS**
(Average movement 11%)**M44. DOMESTIC REFRIGERATORS****M44. DOMESTIC REFRIGERATORS**
(Average movement 8%)**M45. WATER HEATERS****M45. WATER HEATERS**
(Average movement 9%)

M46. DOMESTIC CLOTHES WASHING MACHINES**M46. DOMESTIC CLOTHES WASHING MACHINES**
(Average movement 9%)**M47. ELECTRIC MOTORS****M47. ELECTRIC MOTORS**
(Average movement 7%)**M48. ELECTRICITY****M48. ELECTRICITY**
(Average movement 1%)**M49. GAS****M49. GAS**
(Average movement 3%)



Q5. WOMEN'S SHIRTS AND BLOUSES**Q5. WOMEN'S SHIRTS AND BLOUSES**
(Average movement 11%)**Q6. UNDRESSED SAWN TIMBER(d)****Q6. UNDRESSED SAWN TIMBER(d)**
(Average movement 3%)**Q7. HARDWOOD WOODCHIPS****Q7. HARDWOOD WOODCHIPS**
(Average movement 7%)**Q8. ALUMINA(d)****Q8. ALUMINA(d)**
(Average movement 2%)

Q9. ZINC(d)**Q9. ZINC(d)
(Average movement 6%)****Q10. SILVER(d)****Q10. SILVER(d)
(Average movement 10%)****Q11. COPPER(d)****Q11. COPPER(d)
(Average movement 7%)****Q12. LEAD(d)****Q12. LEAD(d)
(Average movement 7%)**

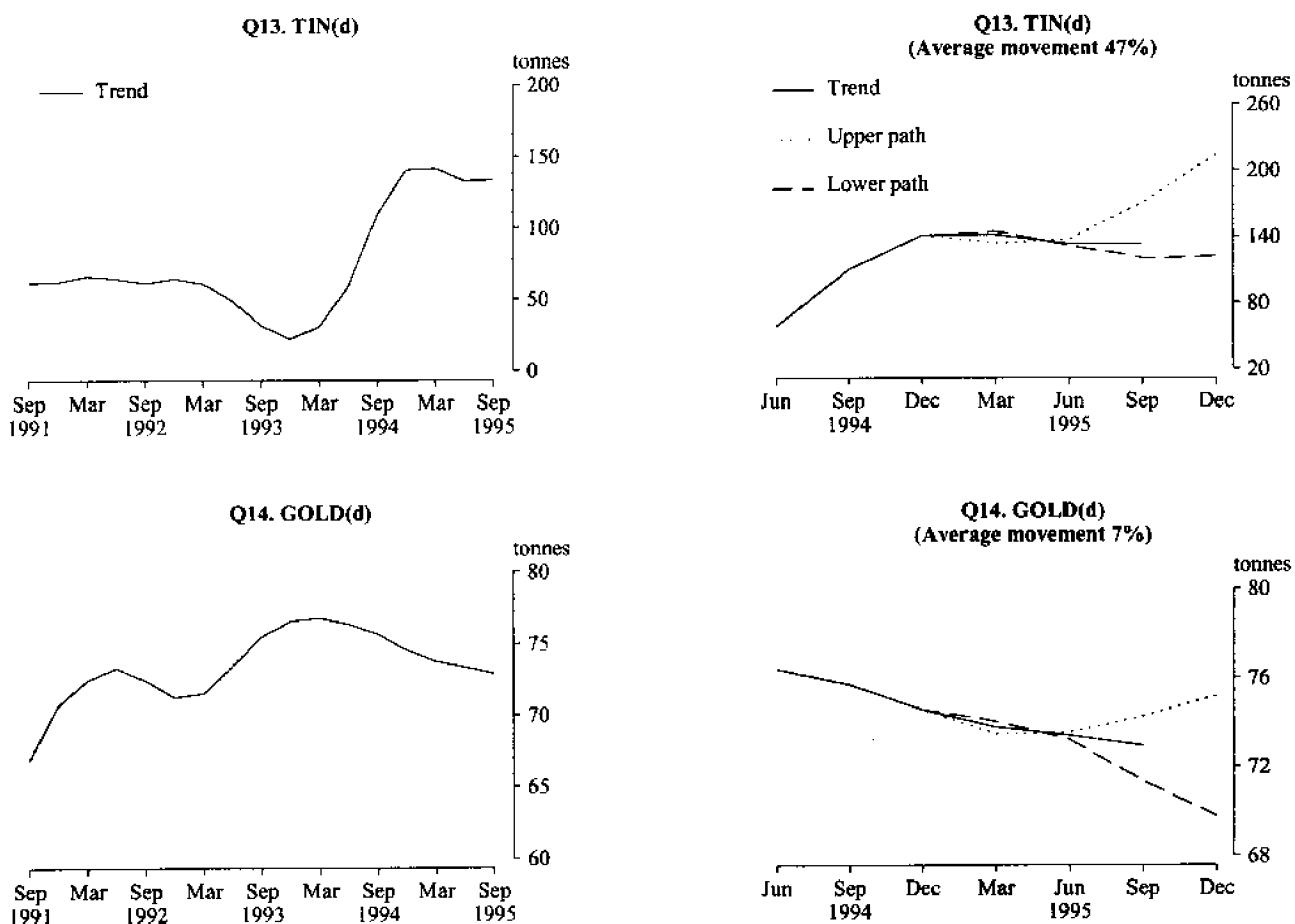


TABLE 1. PRODUCTION STATISTICS, AUSTRALIA, DECEMBER 1995

No.	Item	Series (a)	Unit	1995										Percentage changes between latest month shown and-	
				Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	prev. month	same month prev. year	
M1. Red meat	Orig.	'000 tonnes		199	244	226	198	226	226	221	236	n.y.a.	7.0	-7.6	
	S. adj.	"		218	220	224	215	218	218	212	212	n.y.a.	-0.2	-6.7	
	Trend	"		219	219	219	219	217	216	214	213	n.y.a.	-0.7	-9.7	
M2. Chicken meat	Orig.	tonnes		37,823	36,615	37,575	39,996	36,781	39,429	37,197	36,724	n.y.a.	-1.3	3.9	
	S. adj.	"		36,975	37,011	36,746	38,420	38,156	43,481	36,044	37,206	n.y.a.	3.2	2.6	
	Trend	"		38,151	38,075	38,142	38,329	38,590	38,755	38,739	38,499	n.y.a.	-0.6	0.1	
M3. Cheese(b)	Orig.	"		15,575	13,617	10,779	9,940	14,679	26,042	n.y.a.	n.y.a.	n.y.a.	77.4	22.7	
	S. adj.	"		19,300	21,552	21,720	17,400	18,645	20,459	n.y.a.	n.y.a.	n.y.a.	9.7	21.7	
	Trend	"		19,543	19,837	19,897	19,795	19,644	19,486	n.y.a.	n.y.a.	n.y.a.	-0.8	14.4	
M4. Butter(b)	Orig.	"		7,031	5,312	6,604	6,842	7,610	11,578	n.y.a.	n.y.a.	n.y.a.	52.1	-14.8	
	S. adj.	"		10,175	10,583	13,037	15,438	12,397	9,914	n.y.a.	n.y.a.	n.y.a.	-20.0	-14.4	
	Trend	"		10,998	11,639	12,212	12,541	12,610	12,500	n.y.a.	n.y.a.	n.y.a.	-0.9	7.6	
M5. Flour of wheat or of meslin	Orig.	'000 tonnes		98	116	122	108	119	120	110	123	119	-3.4	10.8	
	S. adj.	"		107	110	113	113	111	115	112	117	129	11.0	14.0	
	Trend	"		109	110	111	112	113	114	116	119	121	2.1	7.8	
M6. Prepared foods from cereals	Orig.	tonnes		8,576	8,744	9,942	5,928	8,371	9,029	9,024	9,661	6,594	-31.7	-20.7	
	S. adj.	"		9,504	7,828	9,558	5,578	8,672	8,862	8,831	9,666	6,812	-29.5	-21.0	
	Trend	"		8,625	8,335	8,160	8,147	8,245	8,385	8,490	8,513	8,400	-1.3	-3.8	
M7. Biscuits	Orig.	"		8,787	11,625	11,931	11,231	12,503	13,263	11,856	13,131	10,044	-23.5	-9.8	
	S. adj.	"		10,377	11,200	11,075	10,879	10,891	12,400	11,362	11,273	12,289	9.0	-5.7	
	Trend	"		10,726	10,759	10,921	11,132	11,309	11,470	11,620	11,755	11,894	1.2	3.2	
M8. Chocolate based confectionery	Orig.	"		6,495	8,668	9,685	10,109	11,095	9,706	10,763	11,310	9,440	-16.5	-0.7	
	S. adj.	"		7,794	8,181	9,332	10,439	9,126	9,300	10,074	10,146	9,931	-2.1	-0.2	
	Trend	"		8,680	8,710	8,939	9,280	9,577	9,756	9,866	9,955	9,982	0.3	2.1	
M9. Other confectionery	Orig.	"		4,538	5,932	6,804	5,626	7,076	6,742	7,587	7,436	5,001	-32.7	-13.3	
	S. adj.	"		5,768	5,873	6,377	5,478	5,873	5,935	7,061	6,279	5,287	-15.8	-13.0	
	Trend	"		5,813	5,816	5,877	5,978	6,073	6,133	6,150	6,121	6,044	-1.3	0.8	
M10. Malt	Orig.	"		45,213	50,270	43,823	44,952	48,402	44,529	44,705	51,787	45,016	-13.1	-6.7	
	S. adj.	"		48,803	46,151	44,540	46,484	48,790	44,705	46,452	48,753	44,705	-8.3	-9.1	
	Trend	"		45,711	45,746	46,042	46,409	46,614	46,631	46,628	46,606	46,521	-0.2	-2.0	
M11. Beer	Orig.	mil litres		127	151	130	119	153	144	166	192	160	-16.9	-12.1	
	S. adj.	"		146	154	152	137	154	158	148	156	137	-12.4	-8.5	
	Trend	"		147	148	149	150	151	151	150	149	148	-0.9	-0.3	
M12. Tobacco and cigarettes(c)	Orig.	tonnes		1,345	2,084	1,855	2,157	2,070	1,910	1,421	1,671	1,647	-1.4	-10.3	
	S. adj.	"		1,735	1,752	1,772	1,883	1,824	1,937	1,528	1,506	1,882	25.0	-6.7	
	Trend	"		1,740	1,772	1,800	1,808	1,792	1,760	1,724	1,697	1,679	-1.1	-14.2	
M13. Man-made fibre woven fabric(f)	Orig.	'000 sq m		12,092	15,089	15,130	13,874	16,863	13,530	12,795	14,778	10,223	-30.8	-24.9	
	S. adj.	"		13,379	14,168	13,691	13,463	15,811	12,987	12,105	13,933	11,831	-15.1	-22.4	
	Trend	"		14,737	14,292	14,006	13,888	13,780	13,556	13,227	12,866	12,561	-2.4	-21.2	
M14. Cotton woven fabric(f)	Orig.	"		3,640	4,554	5,242	4,584	5,256	6,875	5,569	6,600	4,323	-34.5	9.1	
	S. adj.	"		3,790	4,277	4,386	4,631	4,728	5,968	5,438	6,429	5,006	-22.1	14.1	
	Trend	"		4,280	4,245	4,394	4,705	5,066	5,372	5,594	5,732	5,805	1.3	29.4	

For footnotes see end of tables.

TABLE 1. PRODUCTION STATISTICS, AUSTRALIA, DECEMBER 1995 —continued

No.	Item	Series (a)	Unit	1995												Percentage changes between latest month shown and—	
				Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	prev. month	same month prev. year			
M15. Cotton yarn	Orig.	tonnes	2,774	3,708	3,605	3,094	3,831	3,201	3,077	3,552	2,318	-34.7	-9.6				
	S. adj.	"	3,143	3,540	2,936	3,132	3,463	2,885	3,084	3,390	2,726	-19.6	-7.5				
	Trend	"	3,245	3,244	3,226	3,194	3,166	3,137	3,101	3,056	3,033	-0.7	-1.6				
M16. Wool yarn	Orig.	"	1,493	1,956	1,917	2,010	2,117	1,957	1,914	1,444	1,315	-8.9	-20.3				
	S. adj.	"	1,785	1,749	1,820	1,986	1,778	1,857	1,651	1,306	1,656	26.8	-18.9				
	Trend	"	1,851	1,841	1,841	1,834	1,799	1,736	1,660	1,588	1,522	-4.1	-25.1				
M17. Wool woven fabric	Orig.	'000 sq m	700	930	650	521	738	586	639	645	526	-18.4	-7.0				
	S. adj.	"	763	810	710	555	660	604	585	559	653	16.7	-4.4				
	Trend	"	742	732	701	662	627	604	594	591	598	1.1	-12.3				
M18. Textile floor coverings	Orig.	"	3,040	3,865	3,663	4,037	3,972	3,656	4,057	r 3,585	3,429	-4.4	-4.2				
	S. adj.	"	3,539	3,497	3,576	4,144	3,448	3,345	3,732	r 3,060	3,980	30.1	0.4				
	Trend	"	3,794	3,701	3,636	3,602	3,586	3,558	3,534	3,531	3,540	0.2	-16.2				
M19. Footwear excluding sports footwear	Orig.	'000 pairs	1,040	1,278	1,207	1,206	1,497	1,445	1,446	r 1,358	1,057	-22.2	-5.5				
	S. adj.	"	1,063	1,157	1,205	1,228	1,366	1,388	1,340	r 1,258	1,240	-1.4	-3.5				
	Trend	"	1,151	1,166	1,208	1,260	1,302	1,322	1,323	1,311	1,294	-1.3	-0.4				
M20. Sports footwear	Orig.	"	24	27	25	25	24	24	17	r 24	23	-4.4	5.4				
	S. adj.	"	24	24	27	26	19	21	18	r 20	33	62.0	6.6				
	Trend	"	25	25	24	23	22	22	22	23	24	5.5	0.0				
M21. Newsprint	Orig.	tonnes	37,217	41,128	36,245	35,192	39,758	33,033	36,142	38,931	36,733	-5.6	15.6				
	S. adj.	"	36,363	38,687	39,215	35,408	40,664	34,990	35,720	38,623	37,718	-2.3	13.9				
	Trend	"	38,008	38,108	37,920	37,621	37,407	37,224	37,126	37,131	37,256	0.3	9.0				
M22. Wood pulp	Orig.	"	85,549	86,014	95,072	77,150	85,922	89,979	75,865	78,435	92,434	17.8	21.8				
	S. adj.	"	88,503	89,405	91,848	77,892	85,410	86,705	80,534	75,844	92,730	22.3	28.3				
	Trend	"	89,824	89,460	87,714	85,446	83,830	83,047	82,894	83,212	83,926	0.9	6.8				
M23. Undelaminated particle board	Orig.	'000 cu m	66	69	71	62	74	72	69	r 79	57	-28.1	-7.7				
	S. adj.	"	73	60	72	65	60	69	64	r 63	75	19.7	-1.9				
	Trend	"	73	71	69	67	66	65	66	67	68	2.2	-6.1				
M24. Paper	Orig.	'000 tonnes	146	150	169	144	148	n.p.	n.p.	n.p.	n.p.	2.7	2.7				
	S. adj.	"	147	163	160	133	151	n.p.	n.p.	n.p.	n.p.	13.6	6.6				
	Trend	"	158	155	152	149	147	n.p.	n.p.	n.p.	n.p.	-1.6	5.4				
M25. Paperboard containers	Orig.	tonnes	70,919	96,273	87,355	87,375	99,527	93,981	99,183	106,020	82,812	-21.9	-2.7				
	S. adj.	"	n.a.	n.a.	n.a.	n.a.											
	Trend	"	n.a.	n.a.	n.a.	n.a.											
M26. Automotive gasoline(d)	Orig.	megalitres	1,496	1,528	1,447	1,671	1,446	1,453	1,528	n.y.a.	n.y.a.	5.2	6.7				
	S. adj.	"	1,569	1,480	1,432	1,587	1,389	1,472	1,560	n.y.a.	n.y.a.	6.0	6.8				
	Trend	"	1,490	1,489	1,487	1,485	1,485	1,490	1,493	n.y.a.	n.y.a.	0.2	-0.5				
M27. Fuel oil(d)	Orig.	"	209	208	204	234	178	232	156	n.y.a.	n.y.a.	-32.8	-14.0				
	S. adj.	"	n.a.	n.y.a.	n.y.a.	n.a.	n.a.										
	Trend	"	224	221	215	206	197	188	181	n.y.a.	n.y.a.	-3.7	-2.8				
M28. Aviation turbine fuel(d)	Orig.	"	366	385	355	377	417	403	400	n.y.a.	n.y.a.	-0.5	6.7				
	S. adj.	"	388	394	394	388	391	411	355	n.y.a.	n.y.a.	-13.5	1.1				
	Trend	"	387	392	394	393	390	387	383	n.y.a.	n.y.a.	-1.0	7.3				

For footnotes see end of tables.

TABLE 1. PRODUCTION STATISTICS, AUSTRALIA, DECEMBER 1995 —continued

No.	Item	Series (a)	Unit	1995												Percentage changes between latest month shown and—	
				Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	prev. month	same month prev. year			
M29. Automotive diesel oil(d)	Orig.	megalitres	966	979	947	1,047	977	945	955	n.y.a.	n.y.a.	n.y.a.	1.0	0.5	—3.7 0.4	—1.3 3.0	
	S. adj.		995	958	988	1,043	972	966	930	n.y.a.	n.y.a.	n.y.a.	—3.7	0.4			
	Trend		969	985	991	989	982	973	960	n.y.a.	n.y.a.	n.y.a.	—1.3	3.0			
M30. Plastics in primary forms	Orig.	'000 tonnes	99	100	104	116	110	104	108	96	85	—11.1	—9.9	1.7 —9.3	—3.1 —9.4		
	S. adj.		106	96	112	112	104	101	97	93	95	1.7	—9.3				
	Trend		106	106	107	106	104	102	99	96	93	—3.1	—9.4				
M31. Rigid PVC tubes, pipes and hoses	Orig.	tonnes	5,563	9,428	9,370	7,521	7,520	6,612	7,058	7,649	5,588	—27.0	—23.2	—9.6 —19.2	—2.2 —16.7		
	S. adj.		7,248	7,980	8,862	6,301	6,868	7,029	7,076	6,774	6,127	—9.6	—19.2				
	Trend		7,967	7,784	7,580	7,359	7,141	6,936	6,756	6,589	6,443	—2.2	—16.7				
M32. Polyethylene bottles up to two litres	Orig.	million	96	107	93	97	112	123	125	121	147	20.9	20.2	n.a. n.a.	n.a. n.a.		
	S. adj.		"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
	Trend		"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
M33. Paint	Orig.	'000 litres	14,319	15,365	17,898	14,768	14,345	16,001	r 14,385	r 14,919	15,016	0.6	—14.9	4.7 —14.7	—1.7 —20.3		
	S. adj.		15,917	15,046	17,977	15,197	15,090	14,585	r 13,459	r 14,007	14,667	4.7	—14.7				
	Trend		16,291	16,053	15,811	15,528	15,131	14,670	14,294	14,044	13,800	—1.7	—20.3				
M34. Superphosphates	Orig.	'000 tonnes	147	101	69	59	66	55	r 152	179	124	—31.0	—11.9	—34.0 —6.5	1.1 30.6		
	S. adj.		123	97	92	103	109	107	r 222	155	103	—34.0	—6.5				
	Trend		102	99	101	110	122	135	144	150	152	1.1	30.6				
M35. Portland cement	Orig.	'000 tonnes	538	583	582	568	586	578	554	508	483	—4.9	—20.0	503 441	13.9 —2.8		
	S. adj.		579	548	560	539	537	588	532	441	503	13.9	—18.2				
	Trend		580	568	559	552	545	534	520	506	491	—2.8	—18.0				
M36. Clay bricks	Orig.	million	136	166	155	140	141	135	138	r 127	104	—18.5	—29.8	117 122	—4.4 120		
	S. adj.		151	147	147	140	126	132	131	r 122	117	—4.4	—27.8				
	Trend		151	146	142	139	135	130	126	123	120	—2.5	—25.9				
M37. Ready mixed concrete	Orig.	'000 cu m	1,132	1,316	1,291	1,274	1,386	1,289	1,285	r 1,254	1,002	—20.0	—15.7	1,145 1,185	0.2 —2.3		
	S. adj.		1,277	1,185	1,241	1,286	1,265	1,265	1,205	r 1,143	1,145	0.2	—11.8				
	Trend		1,265	1,257	1,255	1,253	1,247	1,232	1,210	1,185	1,158	—2.3	—13.1				
M38. Basic iron, spiegeleisen and sponge iron(e)	Orig.	'000 tonnes	605	619	595	625	657	629	640	633	639	0.8	8.2	612 652	5.0 1.1		
	S. adj.		624	622	600	601	638	606	604	621	652	5.0	8.8				
	Trend		628	622	615	611	611	615	619	625	632	1.1	2.0				
M39. Blooms and slabs of iron or steel(e)	Orig.	'000 tonnes	638	635	629	658	693	677	690	669	664	—0.8	6.0	660 664	0.6 0.4		
	S. adj.		666	656	647	644	670	640	652	660	664	0.6	6.5				
	Trend		654	654	653	652	652	653	655	657	660	0.4	2.0				
M40. Insulated wire	Orig.	tonnes	5,256	7,347	5,871	6,430	6,653	6,832	6,496	6,949	4,415	—36.5	—14.6	5,701 6,448	5,247 5,799		
	S. adj.		5,334	6,708	6,169	5,832	6,440	6,260	5,701	6,448	5,247	—18.6	—14.6				
	Trend		6,307	6,191	6,141	6,150	6,164	6,115	6,017	5,888	5,799	—1.5	—11.6				
M41. Cars and station wagons	Orig.	number	16,308	29,585	28,157	27,217	31,101	26,800	24,523	27,826	20,843	—25.1	—0.7	22,429 23,881	13.9 27,203		
	S. adj.		19,847	25,225	26,711	25,947	26,078	25,113	22,429	23,881	27,203	13.9	4.1				
	Trend		23,435	24,260	25,002	25,361	25,322	25,056	24,796	24,667	24,720	0.2	—2.6				
M42. Vehicles for goods and materials	Orig.		1,503	2,579	2,401	2,291	2,498	2,049	1,999	2,159	1,476	—31.6	—21.3	1,691 1,930	0.4 1,937		
	S. adj.		1,744	2,202	2,188	2,277	2,116	1,992	1,691	1,930	1,937	0.4	—17.7				
	Trend		2,231	2,175	2,136	2,104	2,063	2,003	1,935	1,876	1,840	—1.9	—24.4				

For footnotes see end of tables.

TABLE 1. PRODUCTION STATISTICS, AUSTRALIA, DECEMBER 1995 —continued

No.	Item	Series (a)	Unit	1995										Percentage changes between latest month shown and—	
				Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	prev. month	same month prev. year	
M43. Telephones	Orig.	'000		81	126	135	116	109	135	193	144	124	-13.9	-11.4	
	S. adj.	"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
	Trend	"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
M44. Domestic refrigerators	Orig.	number		23,471	37,336	32,064	31,596	36,404	36,317	39,325	42,831	34,485	-19.5	1.1	
	S. adj.	"		28,691	35,240	35,835	37,440	36,215	41,454	35,117	34,715	38,792	11.7	7.6	
	Trend	"		33,178	34,114	35,378	36,516	37,204	37,435	37,367	37,189	37,094	-0.3	9.2	
M45. Water heaters	Orig.	"		39,302	70,875	55,795	54,551	57,447	56,440	54,924	59,653	40,651	-31.9	-20.5	
	S. adj.	"		53,242	61,448	50,039	54,763	49,093	51,712	48,736	56,298	45,587	-19.0	-18.6	
	Trend	"		56,102	55,306	54,184	52,928	51,893	51,183	50,619	50,032	49,971	-0.1	-9.2	
M46. Domestic clothes washing machines	Orig.	"		20,149	26,159	26,023	27,643	36,352	31,625	27,083	29,485	20,873	-29.2	-0.6	
	S. adj.	"		22,918	25,363	25,214	25,811	27,875	28,208	26,524	26,228	25,602	-2.4	2.9	
	Trend	"		24,362	24,746	25,470	26,267	26,830	27,009	26,924	26,681	26,411	-1.0	2.0	
M47. Electric motors	Orig.	'000		206	275	278	243	284	255	225	280	253	-9.5	22.2	
	S. adj.	"		243	253	264	258	275	229	203	254	301	18.6	26.6	
	Trend	"		258	261	259	253	248	246	247	251	257	2.5	6.7	
M48. Electricity	Orig.	mil k Wh		13,032	14,268	14,473	15,493	14,655	13,746	13,717	13,315	13,420	0.8	-1.3	
	S. adj.	"		13,942	13,837	13,843	14,356	13,536	13,866	13,920	13,765	13,781	0.1	-1.0	
	Trend	"		13,884	13,901	13,915	13,915	13,894	13,860	13,828	13,803	13,777	-0.2	-0.4	
M49. Gas	Orig.	terajoules		49,013	56,624	60,928	66,602	60,054	54,069	53,882	47,053	43,940	-6.6	0.1	
	S. adj.	"		54,478	52,572	51,124	54,935	48,366	49,331	53,646	50,402	52,709	4.6	-0.3	
	Trend	"		52,536	52,477	52,171	51,707	51,289	51,108	51,181	51,408	51,682	0.5	-2.1	

For footnotes see end of tables.

TABLE 2. PRODUCTION STATISTICS, AUSTRALIA, SEPTEMBER QUARTER 1995

No.	Item	Series (a)	Unit	1993			1994			1995			Percentage changes between latest quarter shown and—	
				Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	prev. quarter	same quarter prev. year
Q1.	Men's and boys' long trousers	Orig.	'000	968	880	753	1,040	1,031	979	811	936	993	6.1	-3.7
		S. adj.	"	941	897	873	921	1,004	997	942	828	968	16.8	-3.6
		Trend	"	941	899	891	932	983	978	933	903	904	0.0	-8.1
Q2.	Women's and girls' long trousers	Orig.	"	352	278	461	188	407	380	628	443	252	-43.1	-38.0
		S. adj.	"	349	328	403	187	405	450	545	442	252	-43.1	-37.8
		Trend	"	361	327	314	334	397	476	484	420	356	-15.1	-10.1
Q3.	Jeans	Orig.	"	1,113	891	709	945	941	770	641	887	979	10.3	3.9
		S. adj.	"	991	938	852	864	837	810	772	811	870	7.2	3.9
		Trend	"	999	922	879	852	830	804	796	815	846	3.9	2.0
Q4.	Men's and boys' shirts	Orig.	"	3,696	3,246	2,623	2,867	3,545	2,900	2,347	2,564	2,833	10.5	-20.1
		S. adj.	"	3,064	2,946	3,280	3,208	2,940	2,642	2,916	2,872	2,350	-18.2	-20.1
		Trend	"	3,107	3,086	3,157	3,127	2,953	2,836	2,802	2,719	2,570	-5.5	-13.0
Q5.	Women's shirts and blouses	Orig.	"	1,230	1,563	1,218	812	1,787	1,218	806	864	1,202	39.1	-32.8
		S. adj.	"	915	1,419	1,506	1,092	1,326	1,107	998	1,163	891	-23.4	-32.8
		Trend	"	1,122	1,357	1,341	1,304	1,189	1,131	1,086	1,024	999	-2.4	-16.0
Q6.	Undressed sawn timber(d)	Orig.	'000 cu m	853	847	827	905	967	916	883	925	939	1.5	-2.9
		S. adj.	"	821	846	889	880	929	917	948	900	901	0.2	-3.0
		Trend	"	825	851	875	896	916	929	926	914	903	-1.2	-1.4
Q7.	Hardwood woodchips	Orig.	'000 tonnes	1,270	1,088	1,026	1,228	1,286	1,417	1,402	1,332	1,334	0.1	3.7
		S. adj.	"	1,214	1,094	1,108	1,188	1,228	1,428	1,512	1,288	1,273	-1.2	3.7
		Trend	"	1,166	1,132	1,118	1,164	1,289	1,400	1,419	1,362	1,297	-4.7	0.7
Q8.	Alumina(d)	Orig.	"	3,225	3,154	3,172	3,209	3,235	3,203	3,203	3,299	3,348	1.5	3.5
		S. adj.	"	3,189	3,139	3,205	3,225	3,200	3,192	3,231	3,314	3,313	0.0	3.5
		Trend	"	3,165	3,175	3,195	3,207	3,204	3,207	3,242	3,287	3,322	1.1	3.7
Q9.	Zinc(d)	Orig.	"	73	79	82	81	82	78	72	81	82	1.2	0.0
		S. adj.	"	n.a.	n.a.									
		Trend	"	79	79	81	82	80	78	77	78	80	2.6	0.5
Q10.	Silver(d)	Orig.	tonnes	88	95	91	104	88	79	93	89	89	0.0	1.1
		S. adj.	"	89	97	98	95	88	81	99	81	89	9.7	0.9
		Trend	"	90	95	97	93	89	88	88	88	88	-0.9	-1.9
Q11.	Copper(d)	Orig.	'000 tonnes	84	79	81	87	87	68	71	55	80	45.5	-8.0
		S. adj.	"	77	77	88	90	80	67	77	57	73	29.6	-8.2
		Trend	"	77	81	86	86	81	73	68	67	68	1.0	-16.3
Q12.	Lead(d)	Orig.	"	51	61	55	53	49	55	53	49	57	16.3	16.3
		S. adj.	"	49	59	66	48	48	54	63	44	56	25.8	16.8
		Trend	"	55	58	58	53	51	53	55	53	52	-2.8	2.0
Q13.	Tin(d)	Orig.	tonnes	13	63	18	90	75	135	180	65	165	153.8	120.0
		S. adj.	"	n.a.	n.a.									
		Trend	"	32	22	31	59	110	141	141	133	133	0.3	21.7
Q14.	Gold(d)	Orig.	"	80	74	75	79	78	71	74	74	75	2.0	-3.5
		S. adj.	"	n.a.	n.a.									
		Trend	"	76	77	77	76	76	75	74	73	73	-0.6	-3.7

(a) Trend estimates shown may have been revised. See Explanatory Note 13. (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) Recent movements in this series have caused some uncertainty in its trend estimates from September 1995. Although these changes are expected to be sustained, a larger span of data is required before the final trend for this series can be determined.

GLOSSARY

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 per cent but more than 0.5 per cent, 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	other than sports footwear; excludes thongs
M20	SPORTS FOOTWEAR	includes ski-boots
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
M24	PAPER	other than newsprint; includes paperboard, tissue and sanitary
M25	PAPERBOARD CONTAINERS	includes corrugated paperboard and solid paperboard containers
M26	AUTOMOTIVE GASOLINE	produced by Australian refineries from imported and indigenous petroleum

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	PORLAND 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	HOT 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
M49	GAS	gas available for issue through mains, including natural gas

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	excluding 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

SENSITIVITY ANALYSIS

Where seasonally adjusted series are known to be highly erratic, an analysis of how sensitive the current trend estimates are to additional data can be useful. Such analysis is referred to as 'sensitivity analysis'.

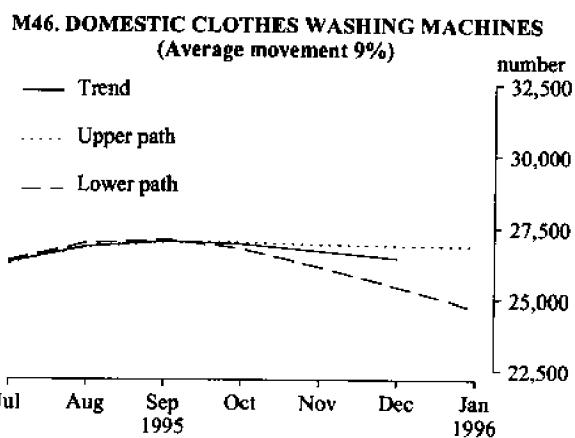
Readers should exercise care when interpreting the latest month's trend estimates because they will be revised when the next month's seasonally adjusted estimates become available. For further information, see Explanatory Notes 12 and 13.

The graph below presents the effect of two possible scenarios on the current and previous trend estimates;

Upper path The January 1996 seasonally adjusted estimate of the production of domestic clothes washing machines is higher than the December 1995 seasonally adjusted estimate by 9%.

Lower path The January 1996 seasonally adjusted estimate of the production of domestic clothes washing machines is lower than the December 1995 seasonally adjusted estimate by 9%.

The percentage change of 9% was chosen because the average monthly absolute percentage change for this series since January 1965 has been 9%.



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 in a minor way some manufacturing. 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.

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. 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, 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 seasonally adjusted series.

13. While this smoothing technique enables estimates of trend to be produced for the latest month, it does result in revisions to the estimates for the most recent months as data for subsequent months become available. Generally, subsequent revisions become smaller and after 3 months 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
and services**

15. Other ABS publications and services 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

Manufacturing Industry, Australia (8221.0) issued annually

Manufacturing Production, Australia: Principal Commodities Produced, 1989-90 (8365.0)

Mining Industry, Australia (8402.0) issued annually

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
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- clothes drying machines
- domestic cooking stoves, ovens and ranges
- colour television receivers
- space heaters
- mowers
- air conditioners
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- audio compact discs
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- brass bars, rods and sections
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- paints
- electricity
- gas
- semi-trailers
- mineral waters and aerated waters
- starches, wheat gluten and glucose
- beer
- ham and bacon and canned meat
- selected foods
- ready mixed concrete
- concrete blocks, bricks and pavers
- roof tiles
- clay bricks
- Portland cement
- mattresses and mattress supports
- knitted underwear
- foundation garments

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

For further information, please call Jeffrey Middleton on (02) 268 4541.

16. 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 Publications Advice are available from any ABS office.

**Symbols and
other usages**

n.a.	not available
n.p.	not publishable
n.y.a.	not yet available
r	figure or series revised since previous issue

For more information . . .

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