

MANUFACTURING PRODUCTION, AUSTRALIA JULY 1995

NOTES

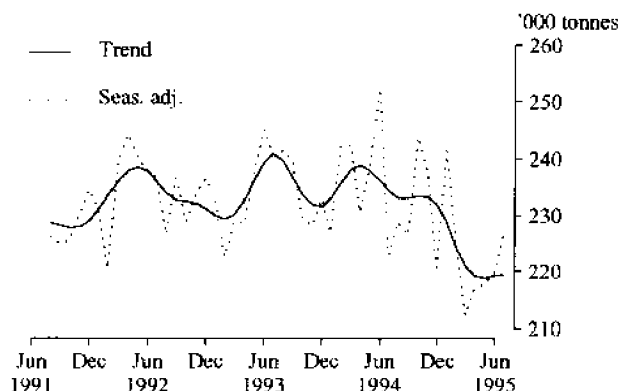
This publication presents monthly and quarterly estimates of selected major indicators of manufacturing production for Australia. There are two graphs shown below for each manufactured commodity. The left hand graph shows seasonally adjusted (where available) and trend estimates over the last four years. 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.

In this issue, many of the monthly seasonally adjusted estimates have been revised due to the annual re-analysis of seasonal factors. Please refer to the Explanatory Notes at the back of this publication.

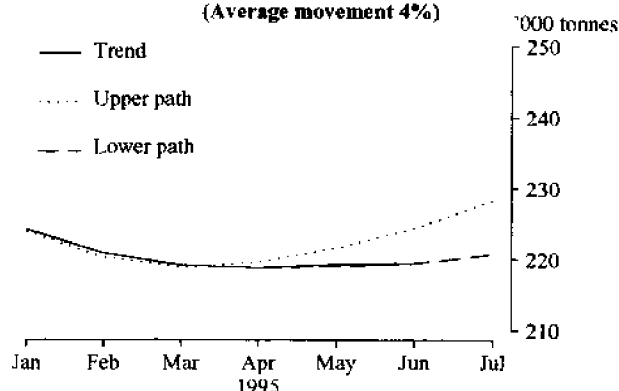
RICHARD MADDEN
Acting Australian Statistician

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

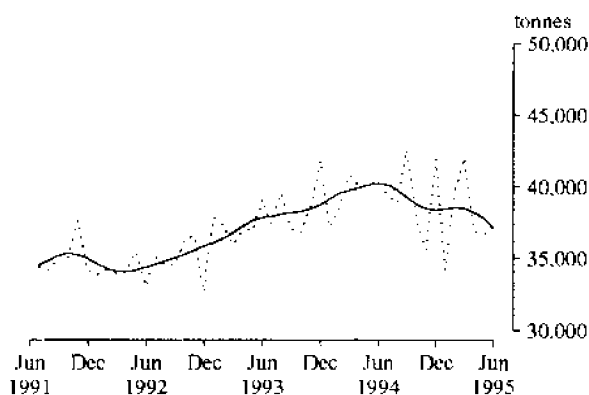
M1. RED MEAT



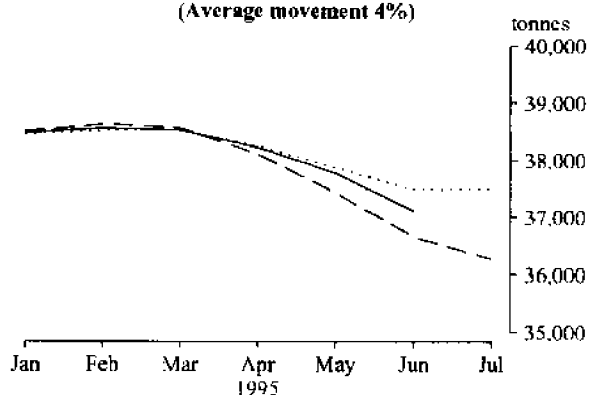
M1. RED MEAT
(Average movement 4%)



M2. CHICKEN MEAT

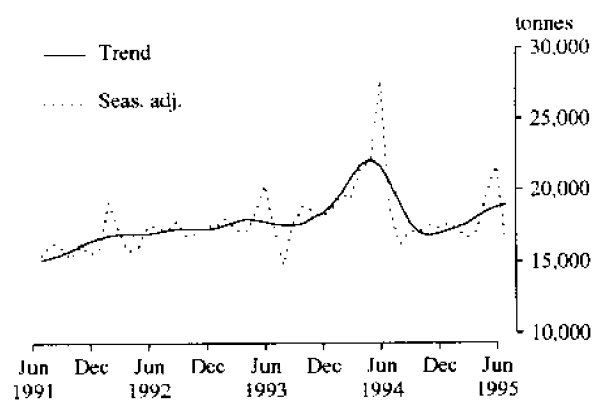
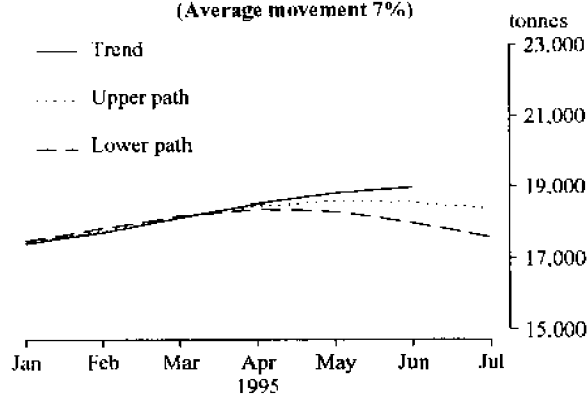
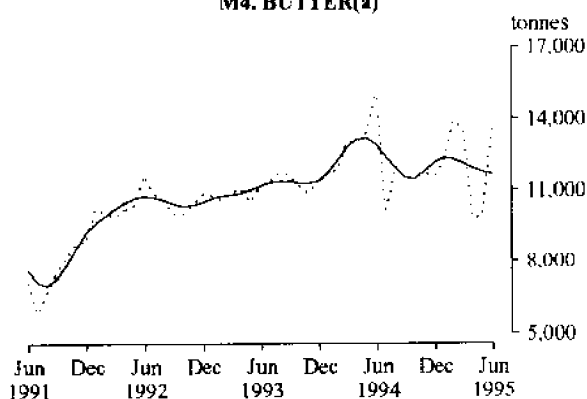
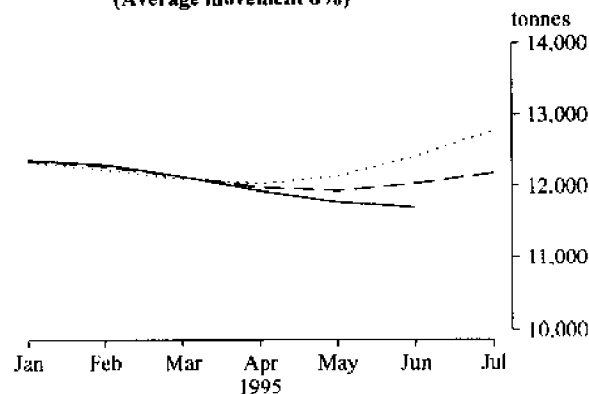
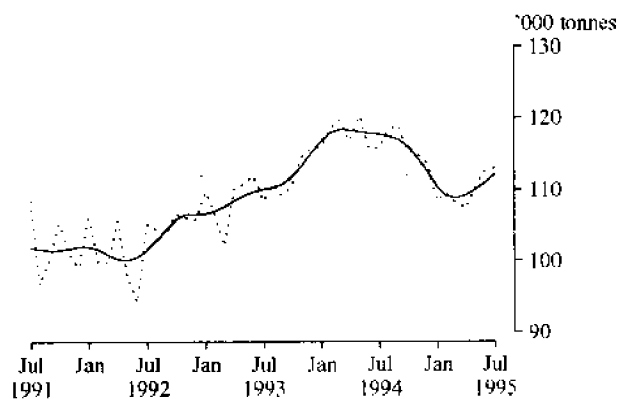
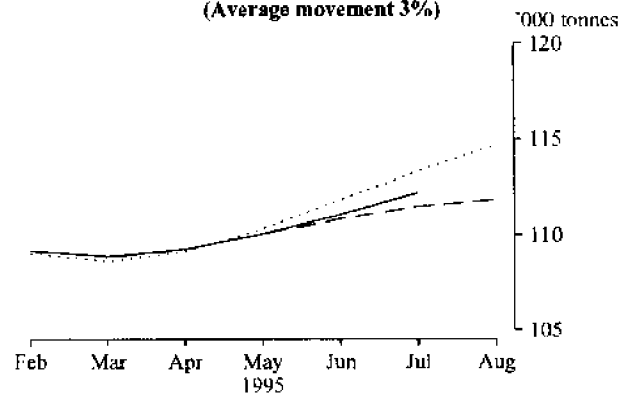
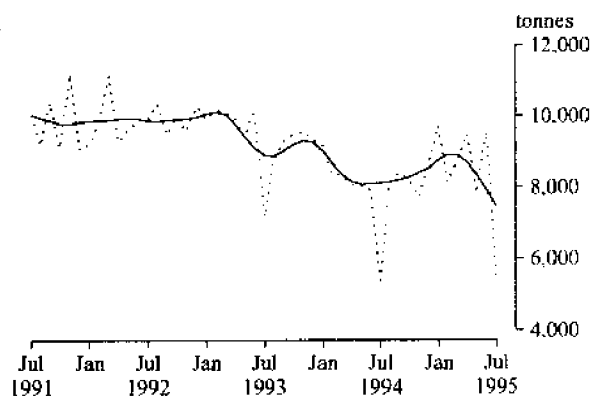
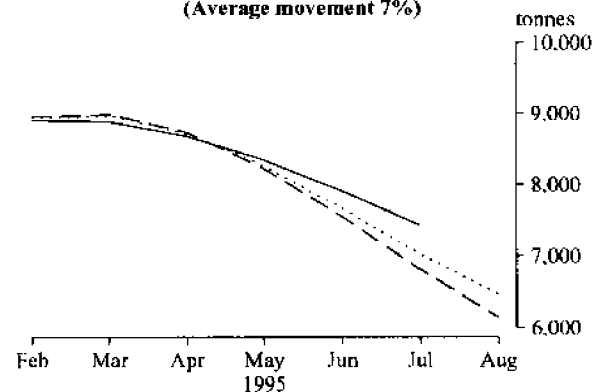


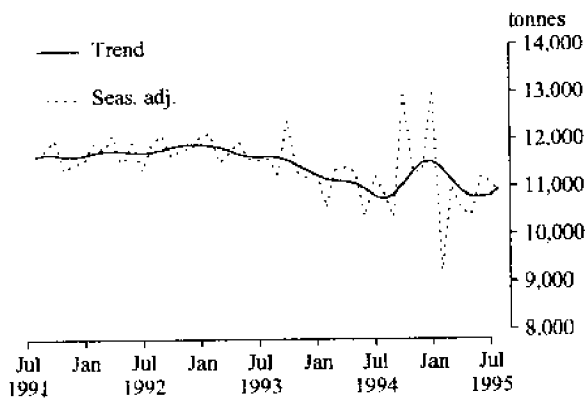
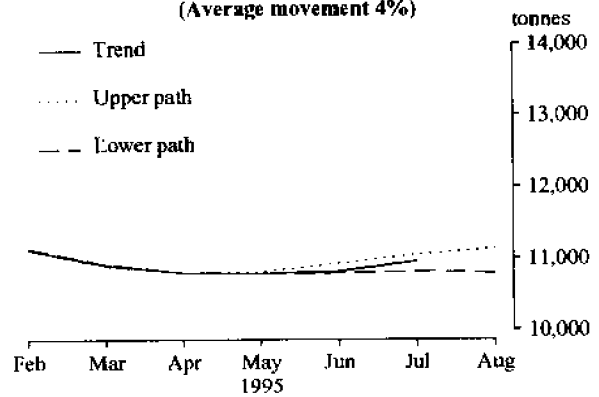
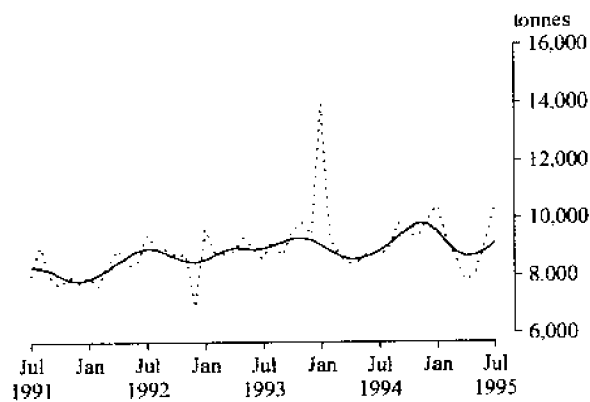
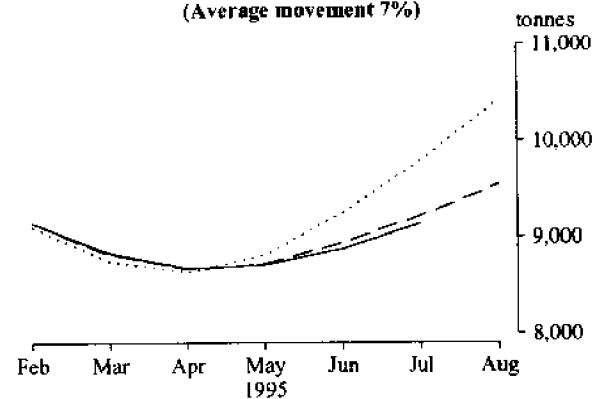
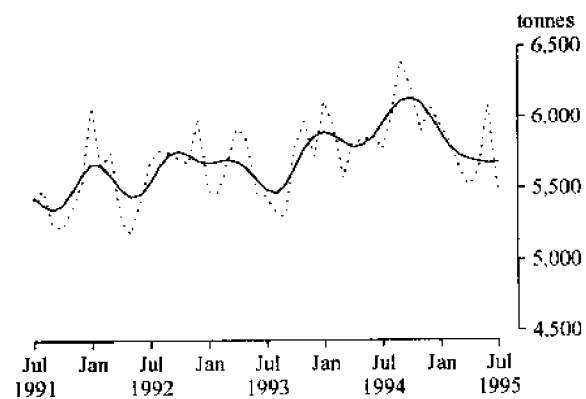
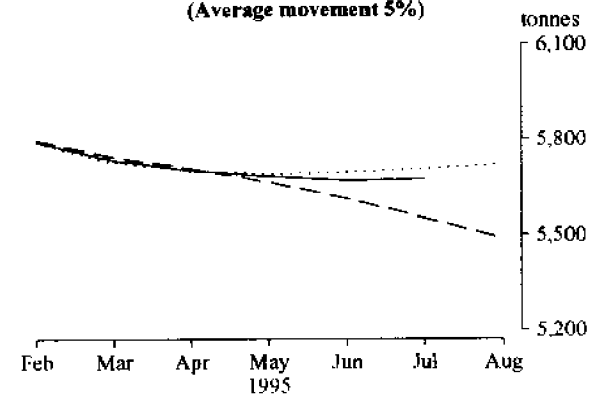
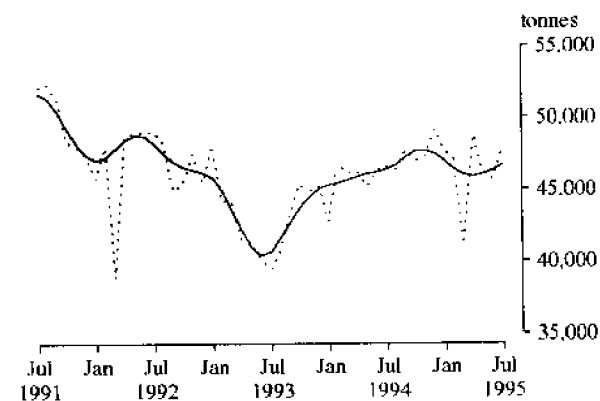
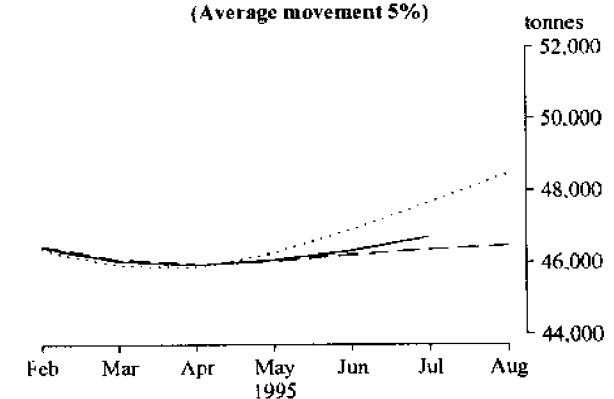
M2. CHICKEN MEAT
(Average movement 4%)

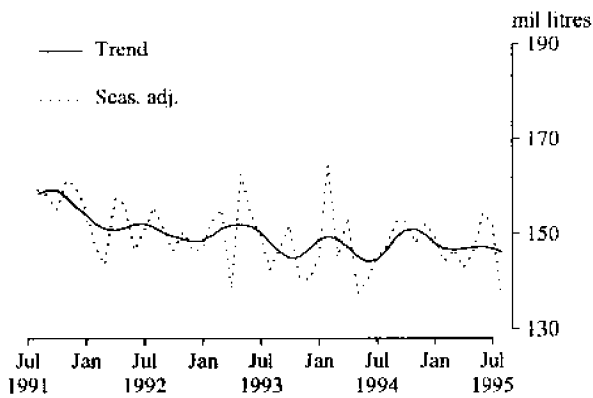
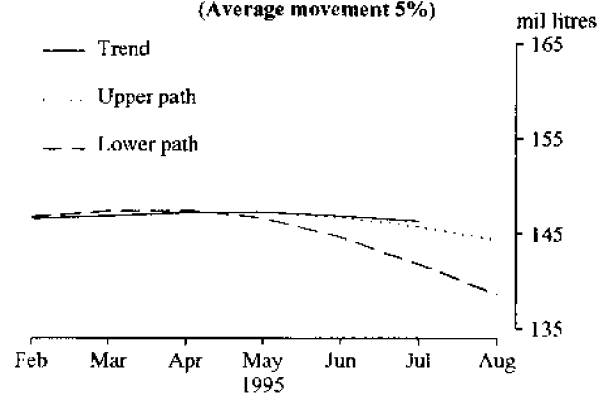
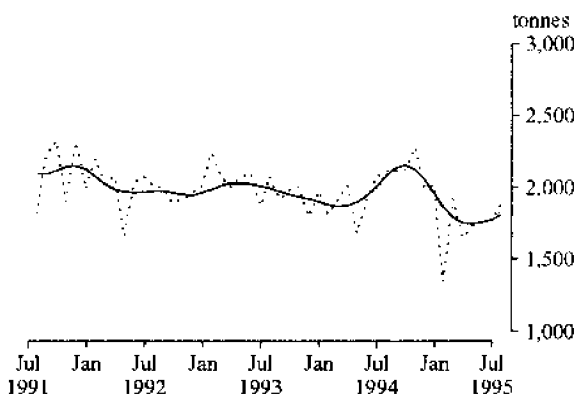
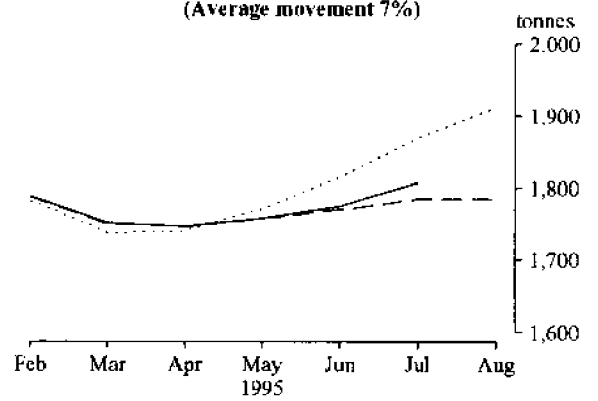
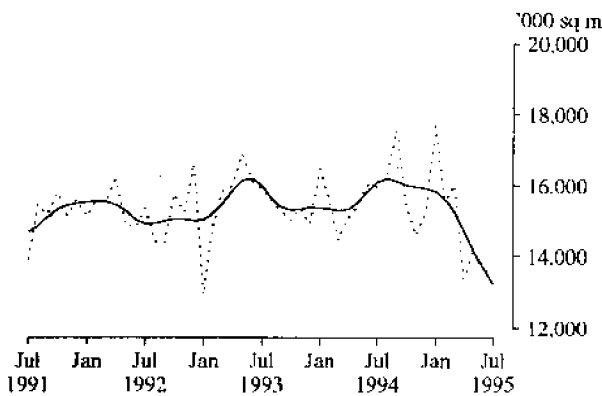
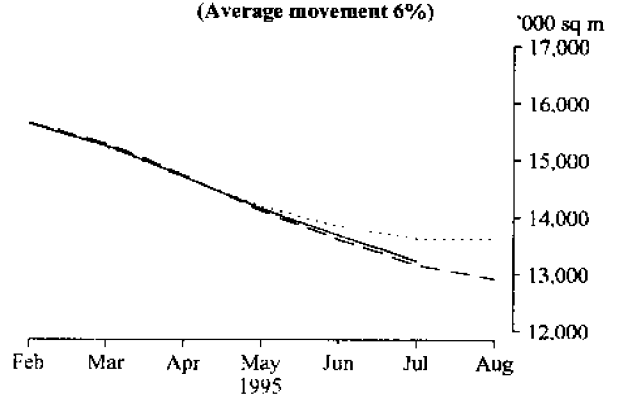
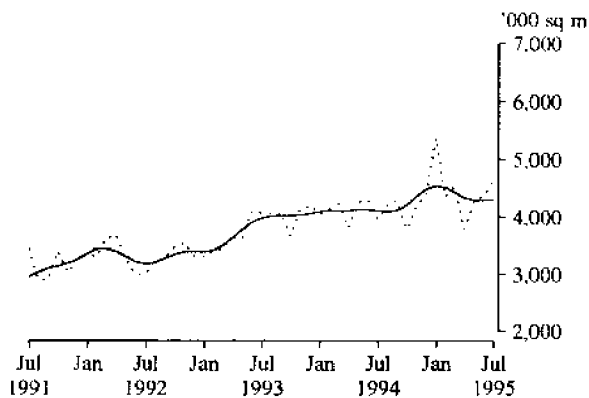
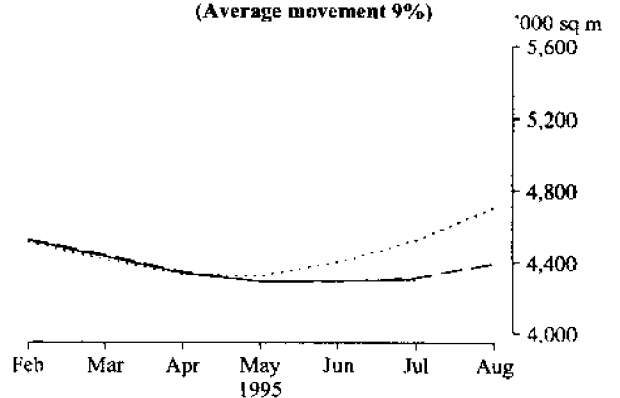


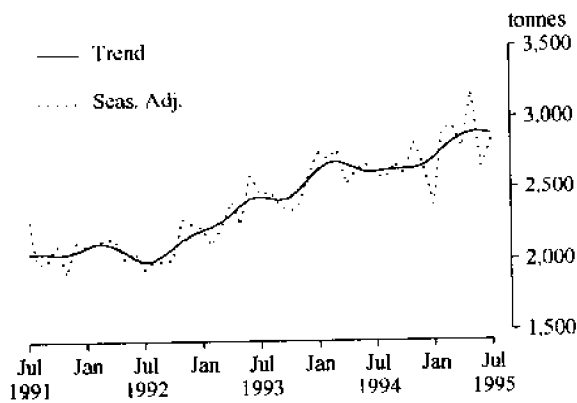
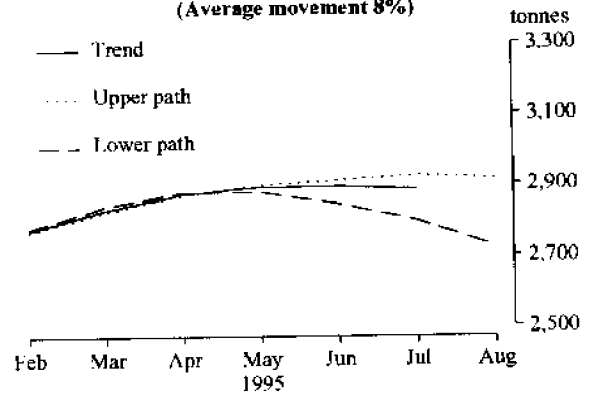
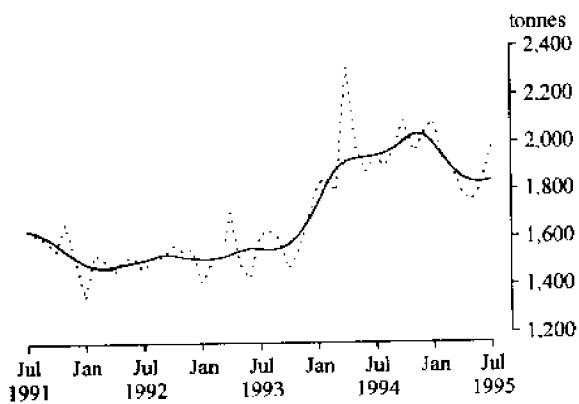
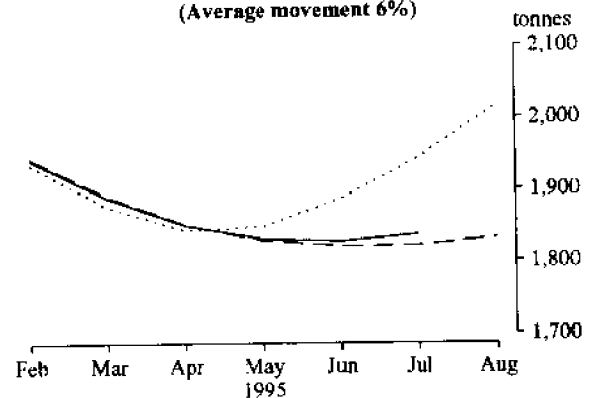
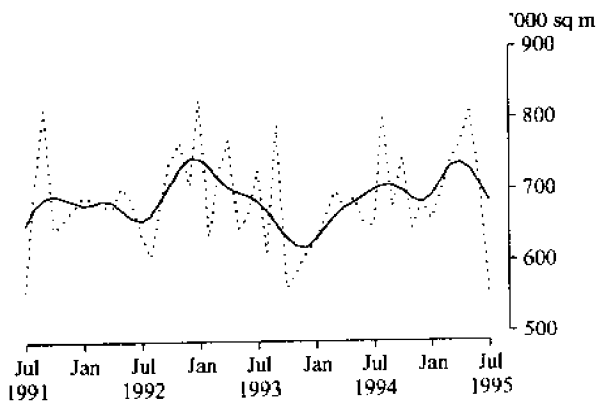
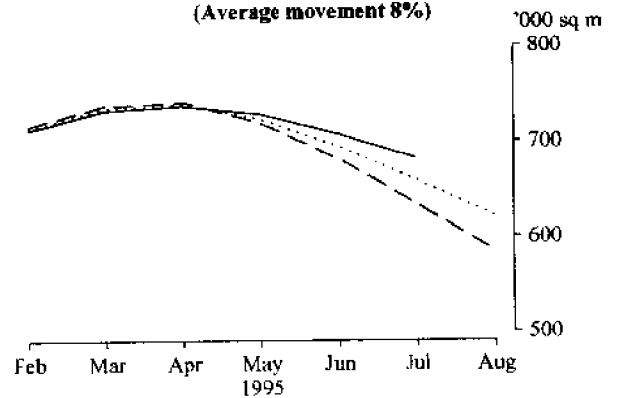
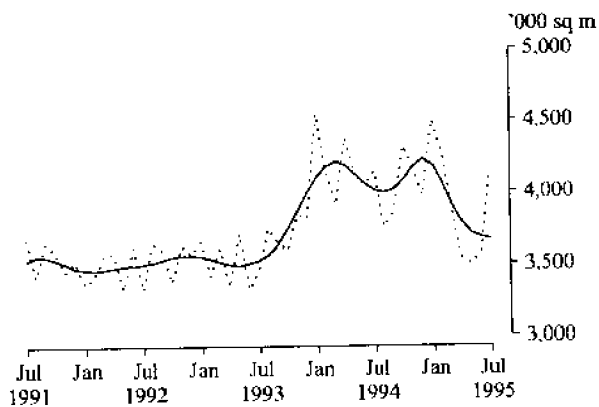
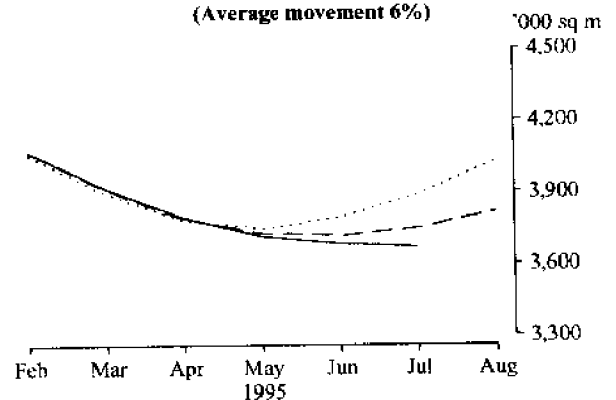
INQUIRIES

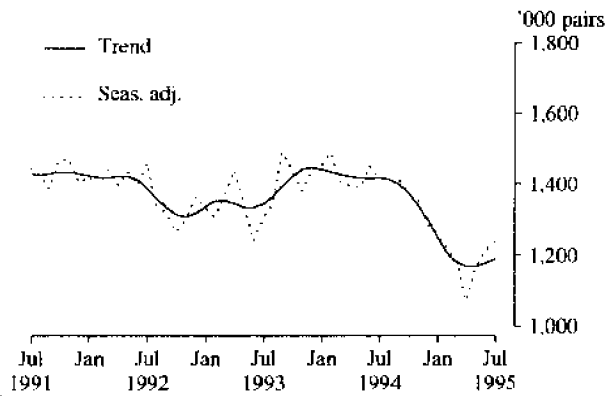
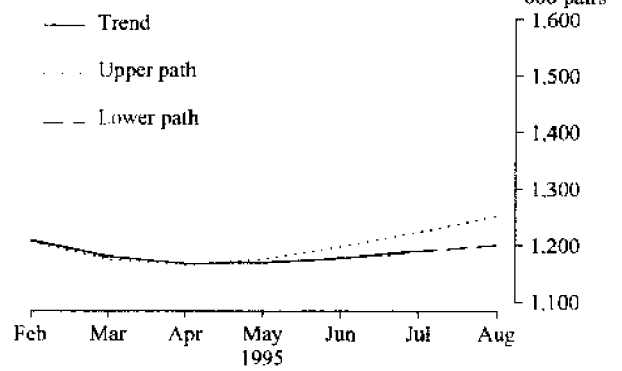
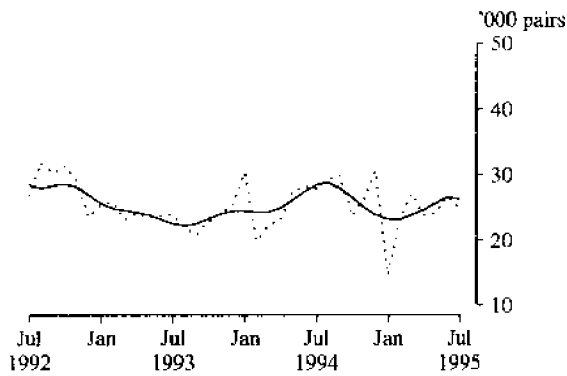
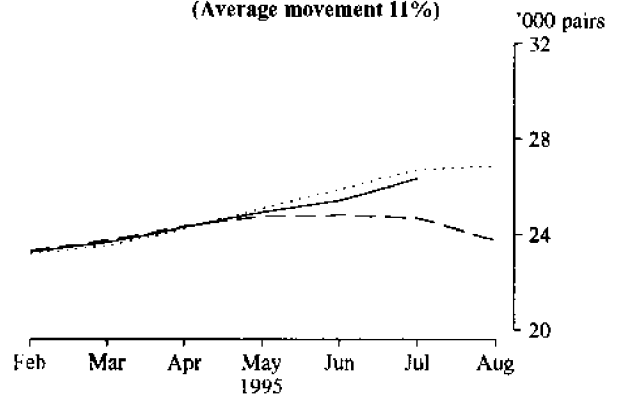
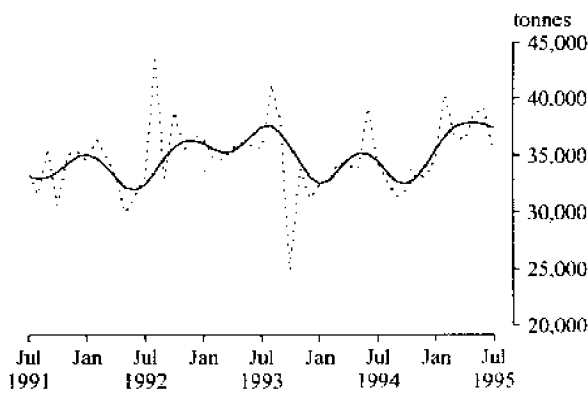
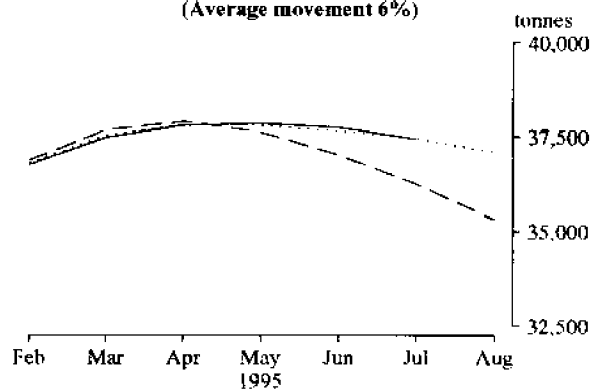
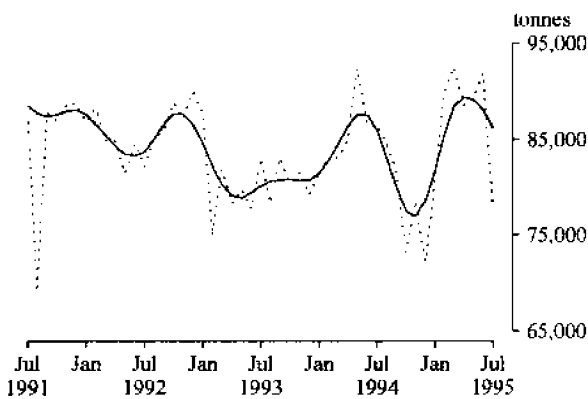
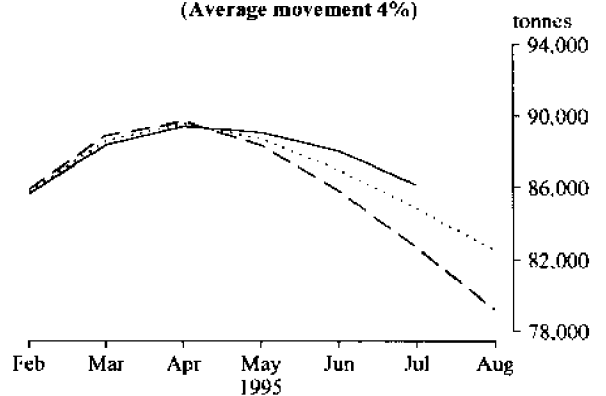
- for further information about statistics in this publication and the availability of related unpublished statistics, contact John Ridley on Sydney (02) 268 4541.
- for information about other ABS statistics and services please refer to the back page of this publication.

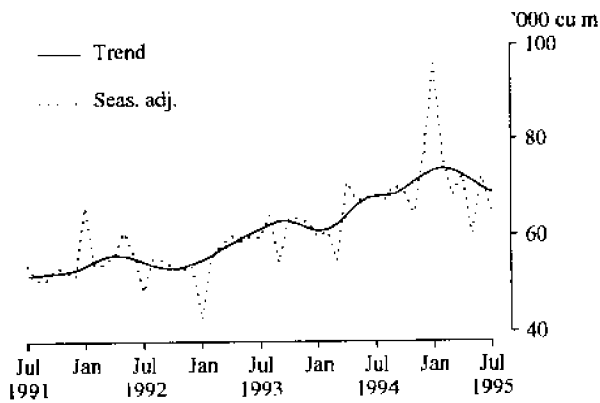
M3. CHEESE(a)**M3. CHEESE(a)**
(Average movement 7%)**M4. BUTTER(a)****M4. BUTTER(a)**
(Average movement 8%)**M5. FLOUR OF WHEAT OR OF MESLIN****M5. FLOUR OF WHEAT OR OF MESLIN**
(Average movement 3%)**M6. PREPARED FOOD FROM CEREALS****M6. PREPARED FOOD FROM CEREALS**
(Average movement 7%)

M7. BISCUITS**M7. BISCUITS**
(Average movement 4%)**M8. CHOCOLATE BASED CONFECTIONERY****M8. CHOCOLATE BASED CONFECTIONERY**
(Average movement 7%)**M9. OTHER CONFECTIONERY****M9. OTHER CONFECTIONERY**
(Average movement 5%)**M10. MALT****M10. MALT**
(Average movement 5%)

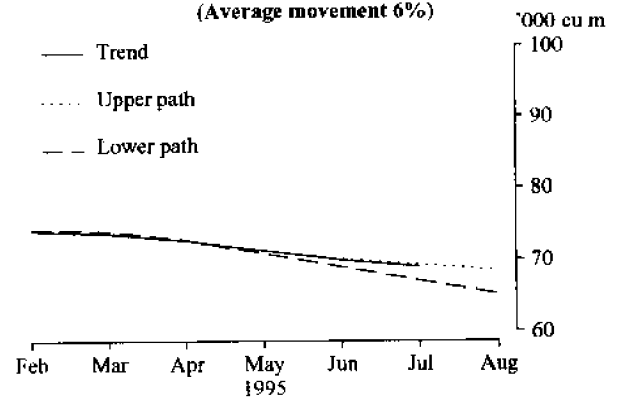
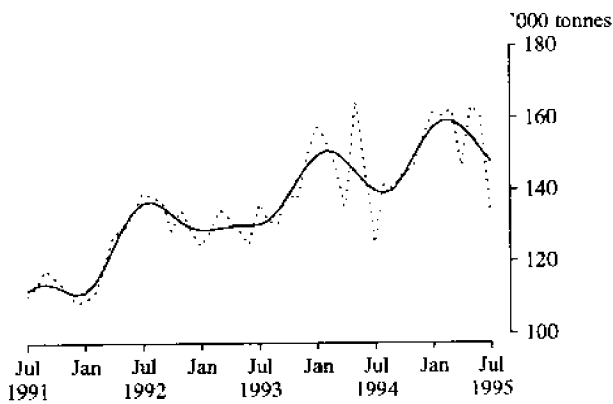
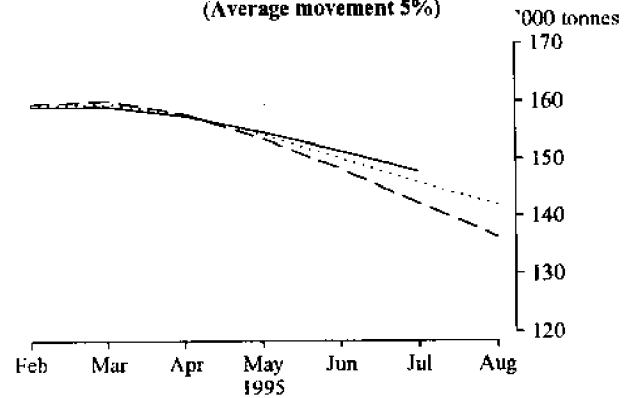
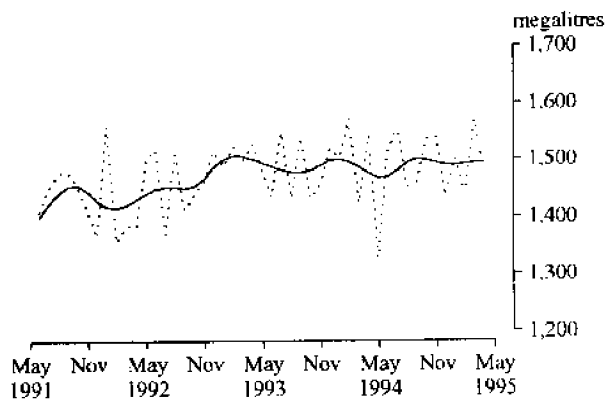
M11. BEER**M11. BEER**
(Average movement 5%)**M12. TOBACCO AND CIGARETTES(b)****M12. TOBACCO AND CIGARETTES(b)**
(Average movement 7%)**M13. MAN-MADE FIBRE WOVEN FABRIC****M13. MAN-MADE FIBRE WOVEN FABRIC**
(Average movement 6%)**M14. COTTON WOVEN FABRIC****M14. COTTON WOVEN FABRIC**
(Average movement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

M15. COTTON YARN**M15. COTTON YARN**
(Average movement 8%)**M16. WOOL YARN****M16. WOOL YARN**
(Average movement 6%)**M17. WOOL WOVEN FABRIC****M17. WOOL WOVEN FABRIC**
(Average movement 8%)**M18. TEXTILE FLOOR COVERINGS****M18. TEXTILE FLOOR COVERINGS**
(Average movement 6%)

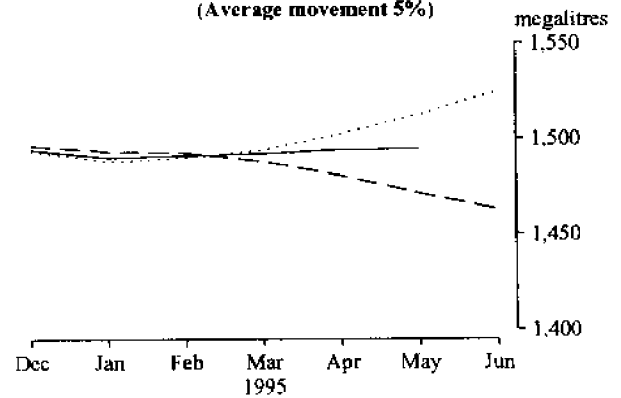
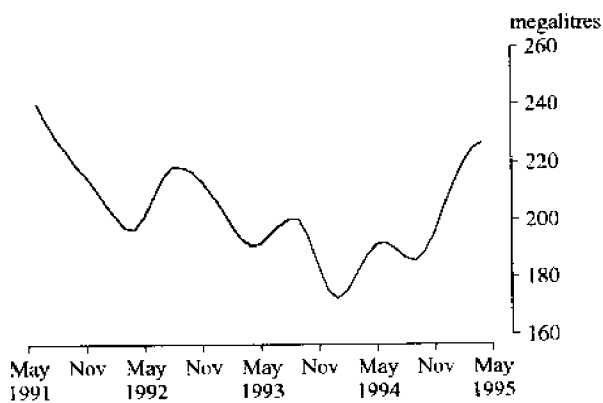
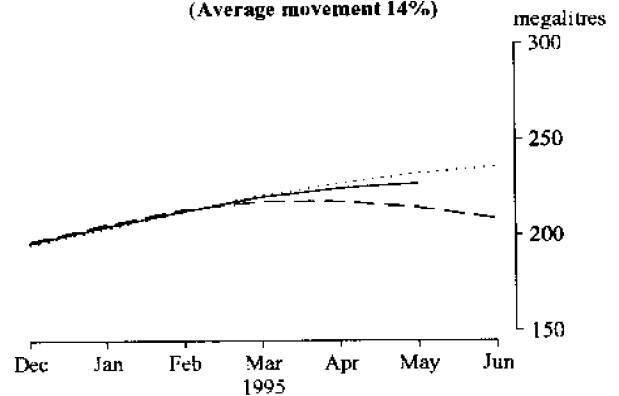
M19. FOOTWEAR**M19. FOOTWEAR**
(Average movement 5%)**M20. SPORTS FOOTWEAR****M20. SPORTS FOOTWEAR**
(Average movement 11%)**M21. NEWSPRINT****M21. NEWSPRINT**
(Average movement 6%)**M22. WOOD PULP****M22. WOOD PULP**
(Average movement 4%)

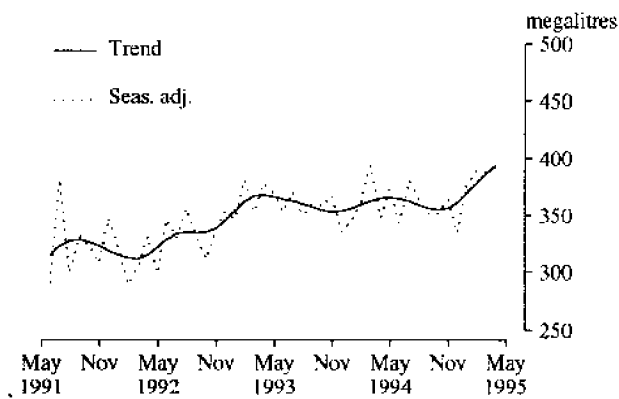
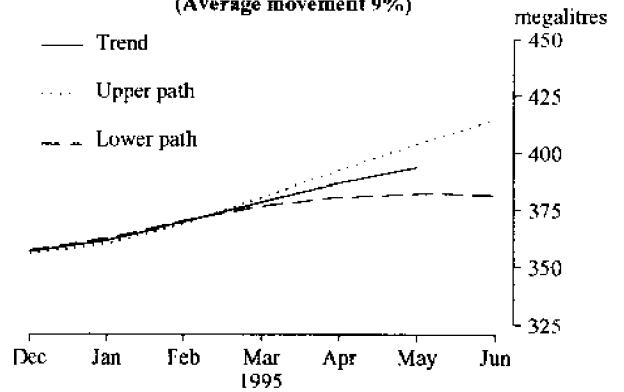
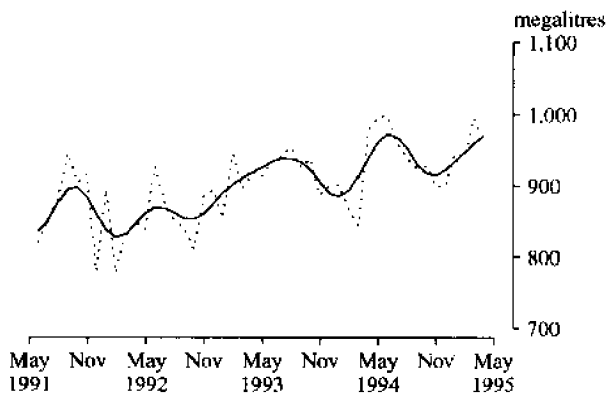
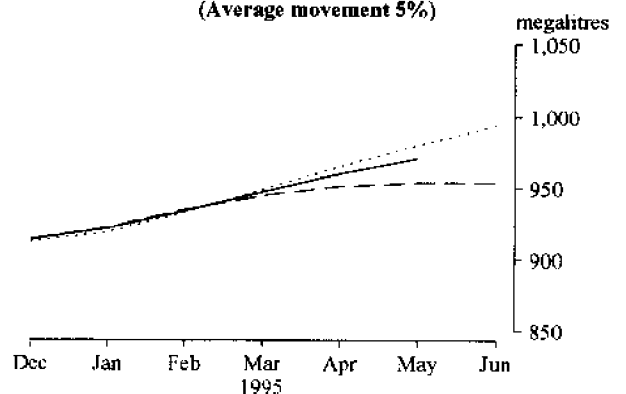
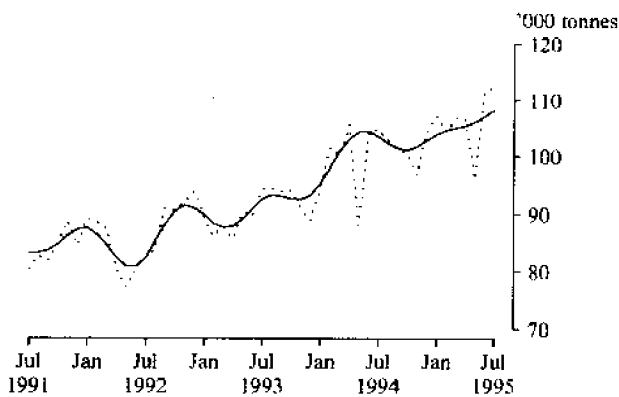
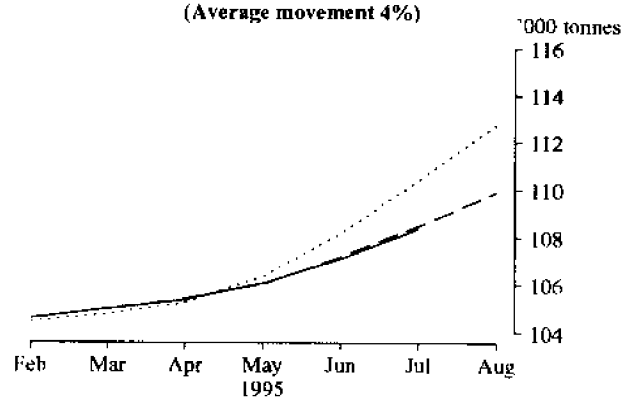
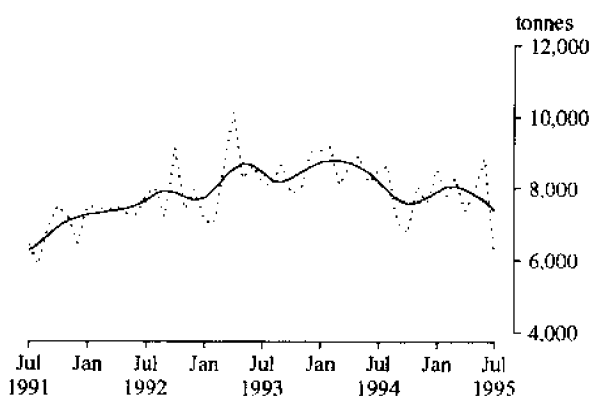
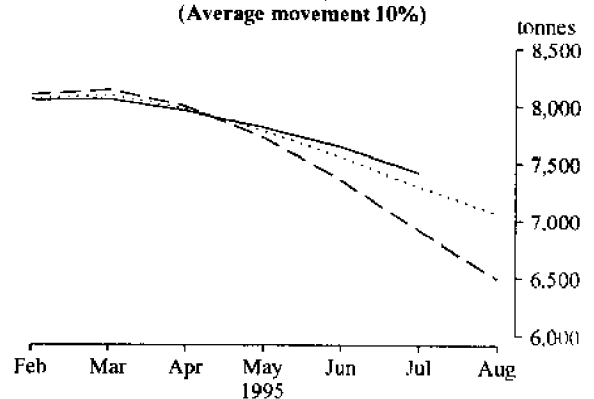
M23. UNLAMINATED PARTICLE BOARD**M23. UNLAMINATED PARTICLE BOARD**

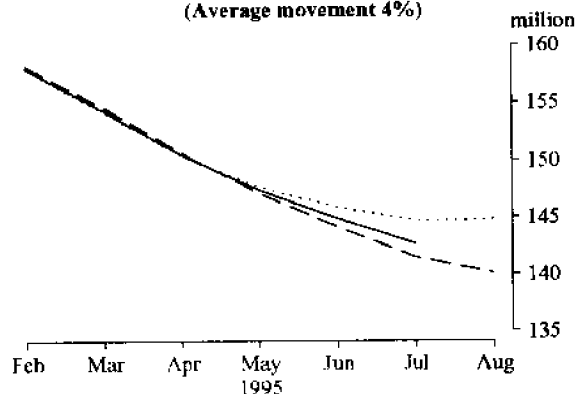
(Average movement 6%)

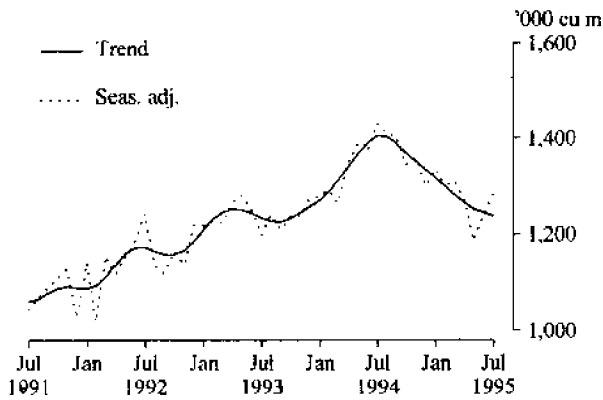
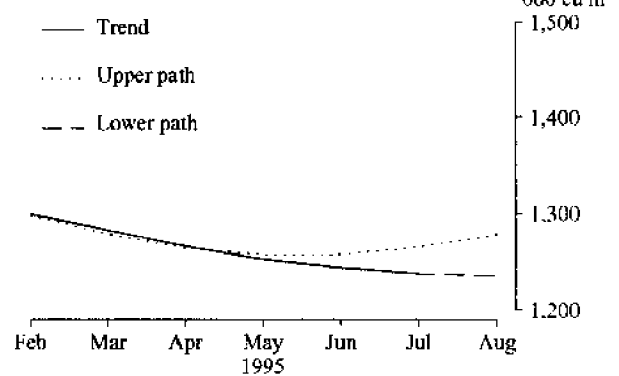
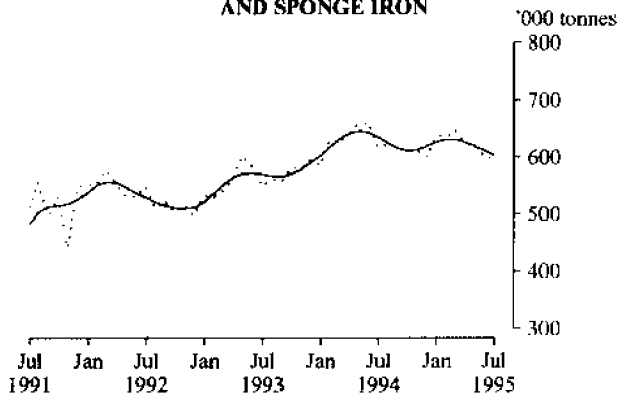
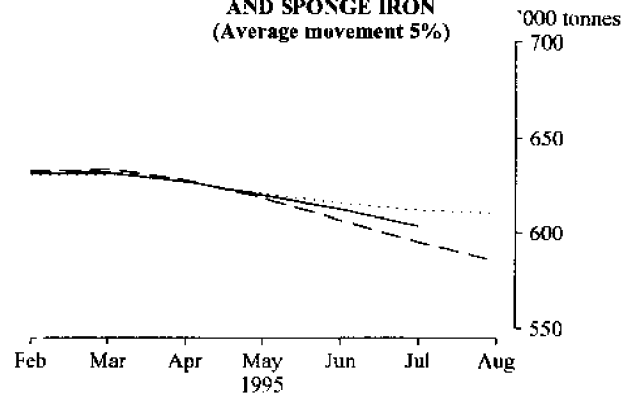
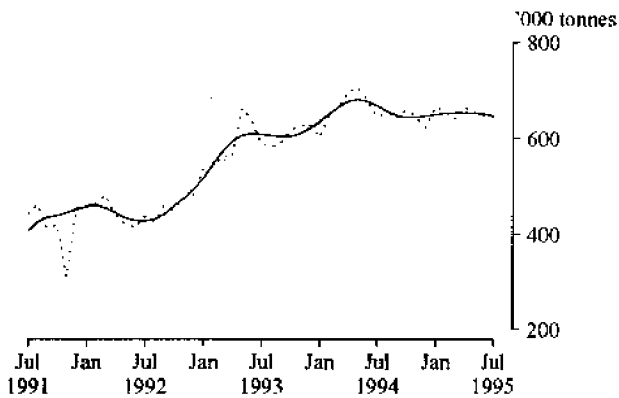
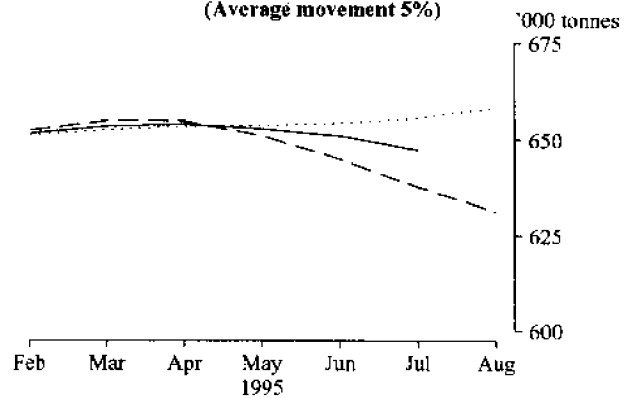
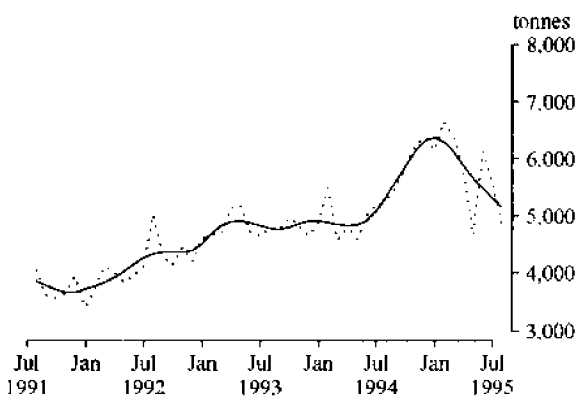
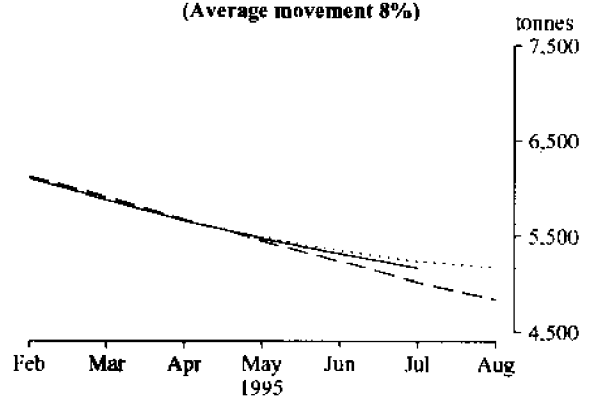
**M24. PAPER****M24. PAPER**
(Average movement 5%)**M26. AUTOMOTIVE GASOLINE(c)****M26. AUTOMOTIVE GASOLINE(c)**

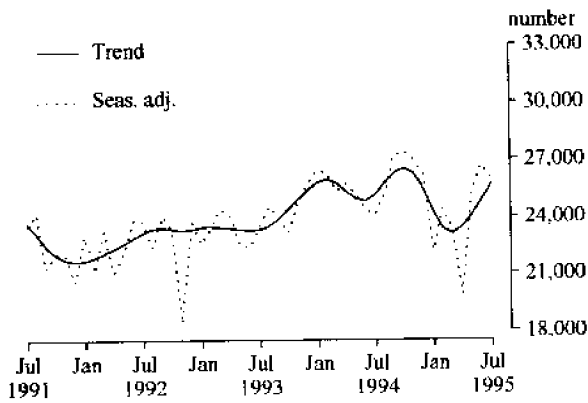
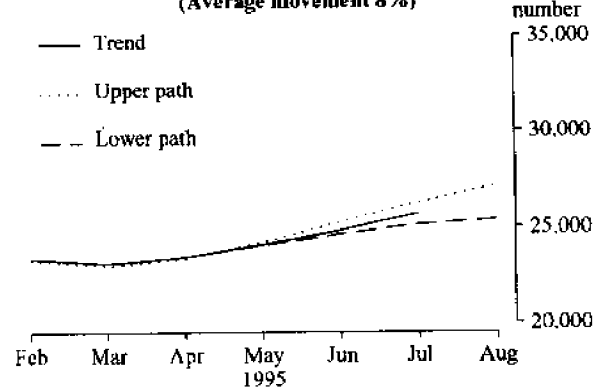
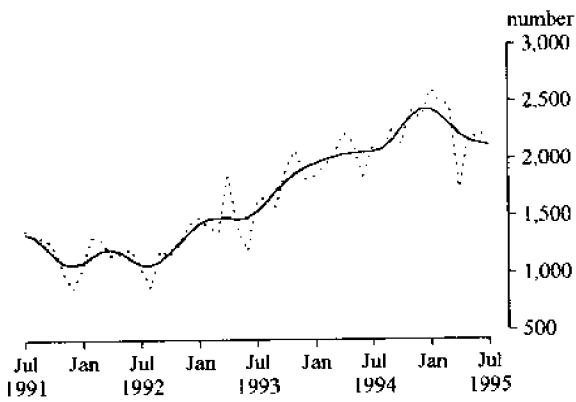
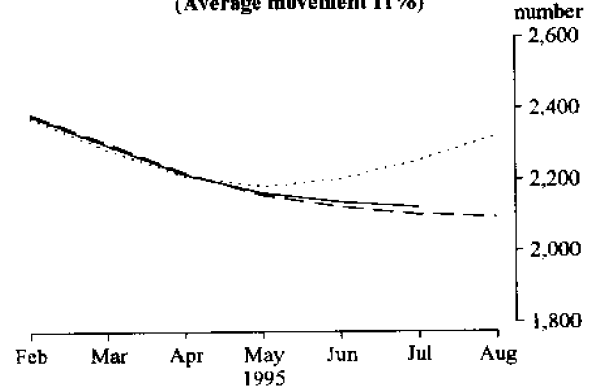
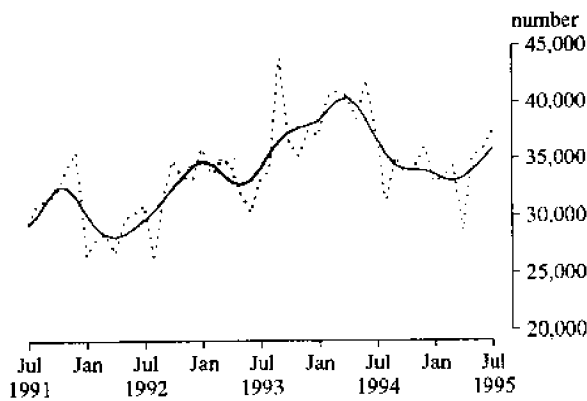
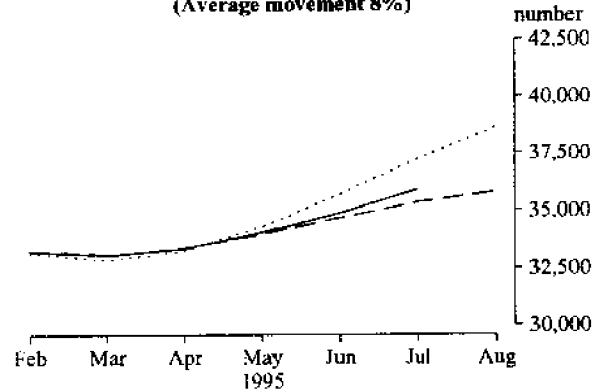
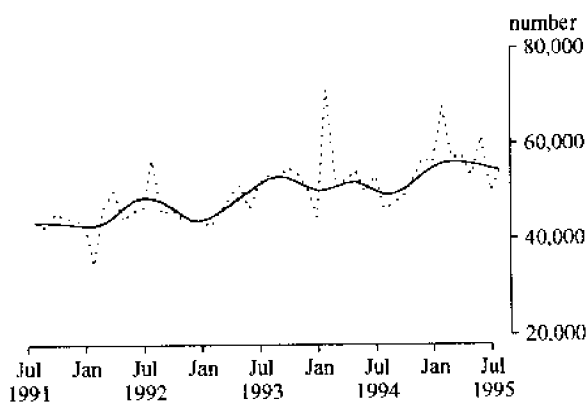
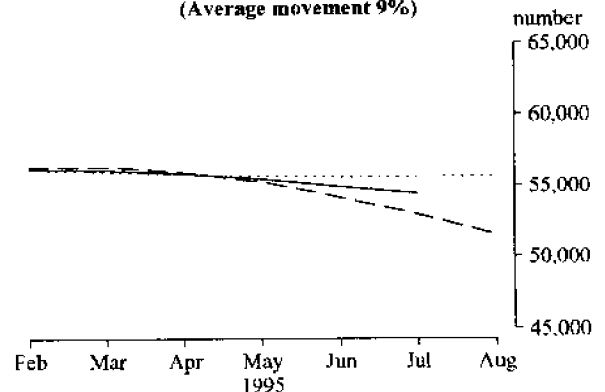
(Average movement 5%)

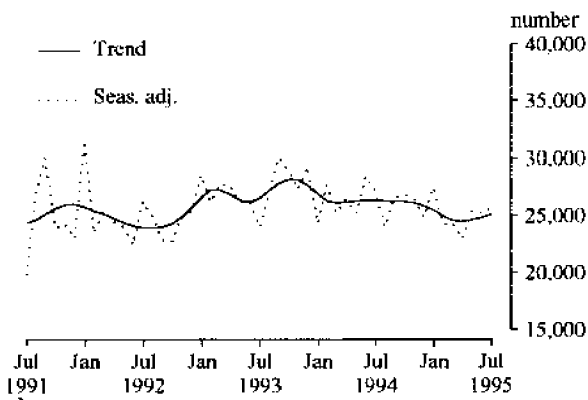
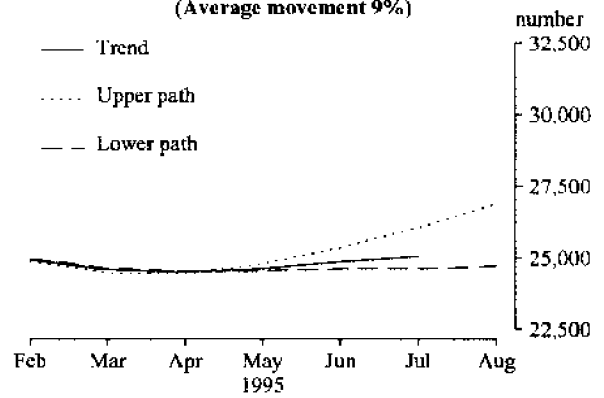
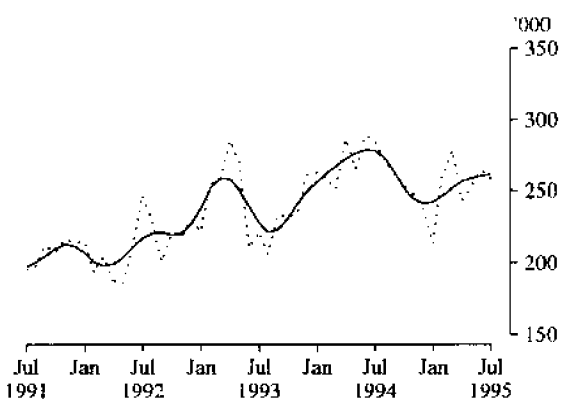
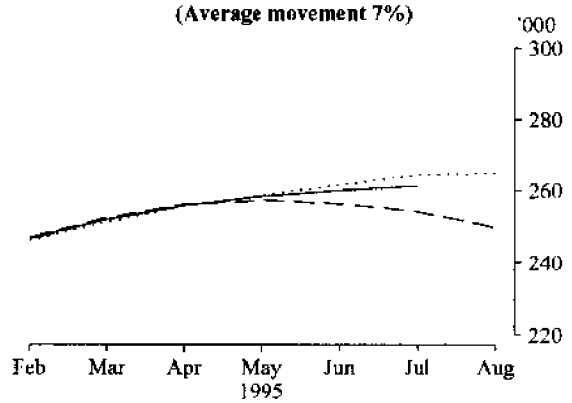
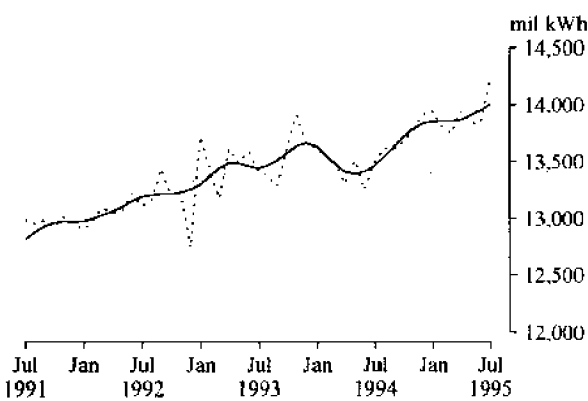
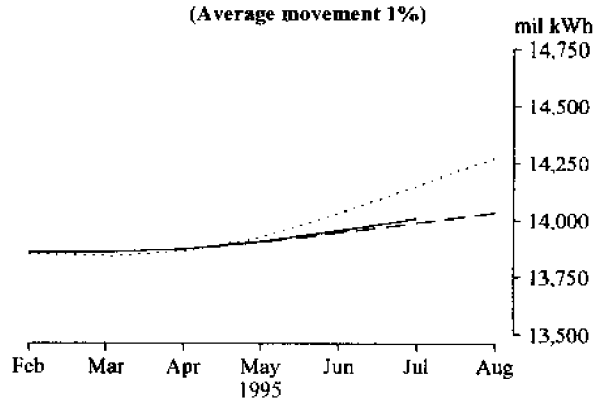
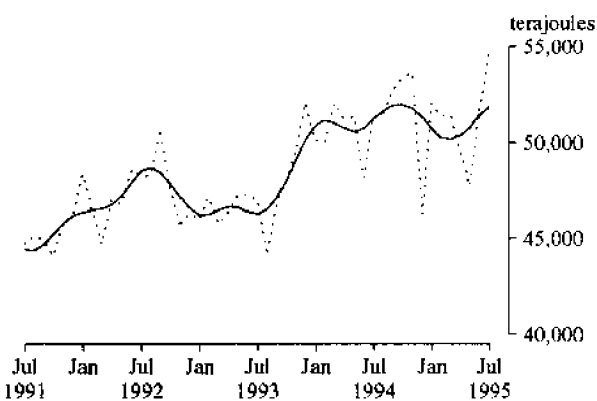
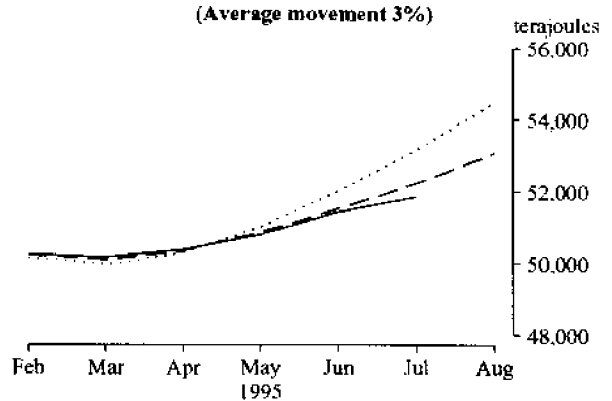
**M27. FUEL OIL(c)****M27. FUEL OIL(c)**
(Average movement 14%)

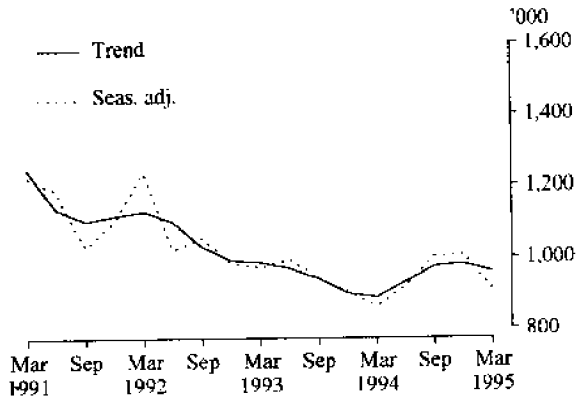
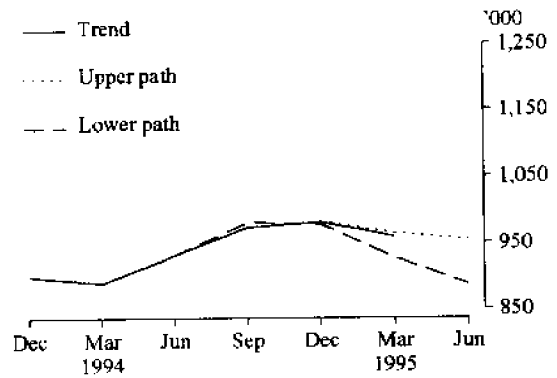
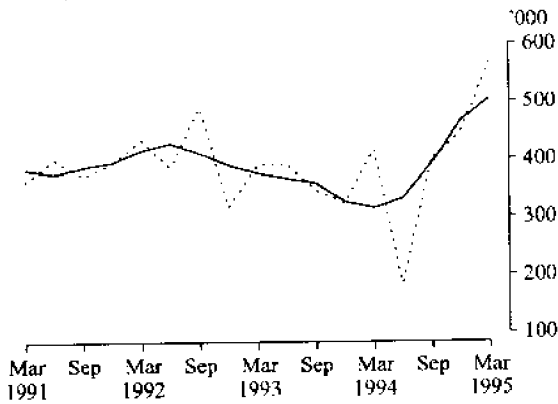
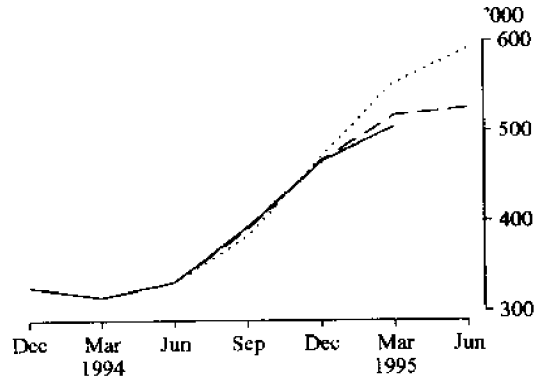
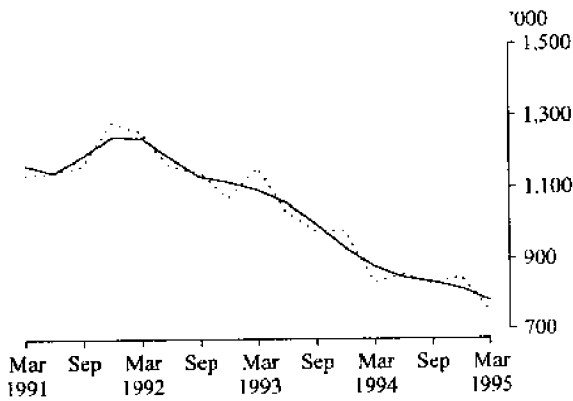
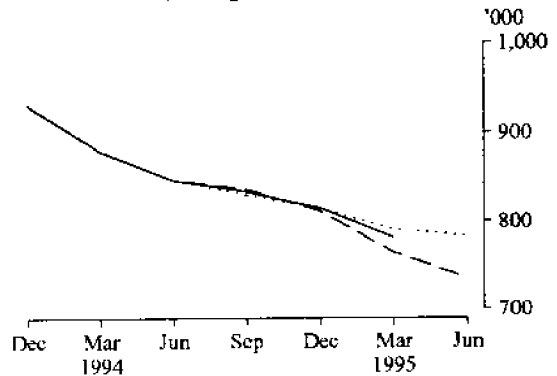
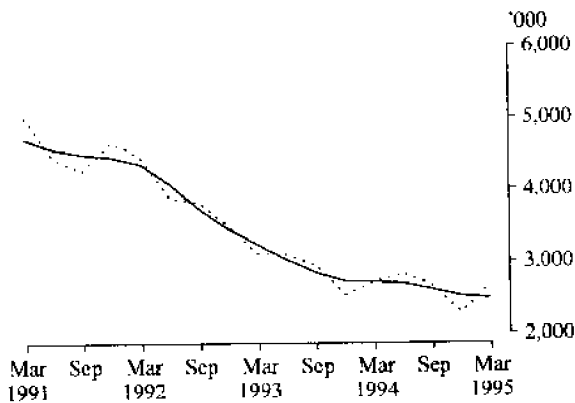
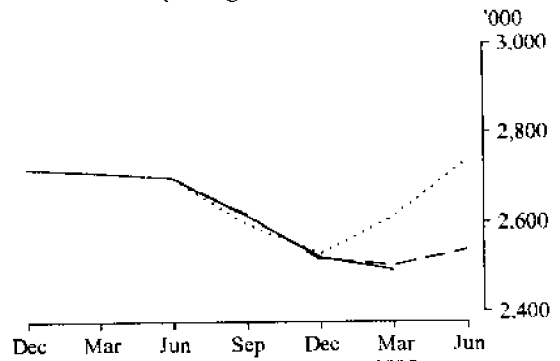
M28. AVIATION TURBINE FUEL(c)**M28. AVIATION TURBINE FUEL(c)**
(Average movement 9%)**M29. AUTOMOTIVE DIESEL OIL(c)****M29. AUTOMOTIVE DIESEL OIL(c)**
(Average movement 5%)**M30. PLASTICS IN PRIMARY FORMS****M30. PLASTICS IN PRIMARY FORMS**
(Average movement 4%)**M31. RIGID PVC TUBES, PIPES AND HOSES****M31.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

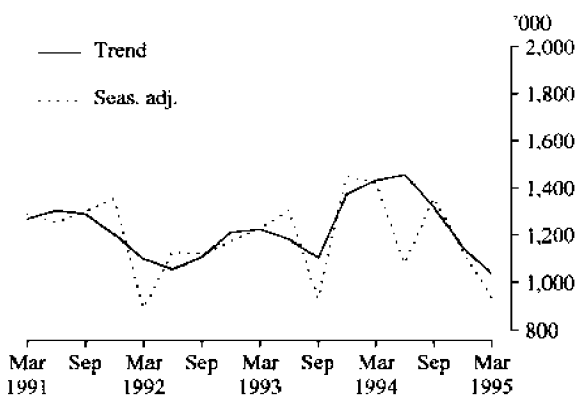
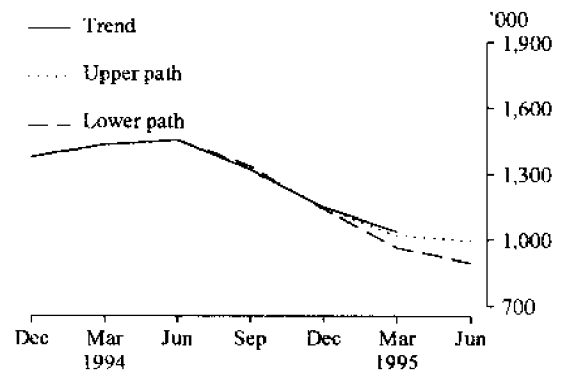
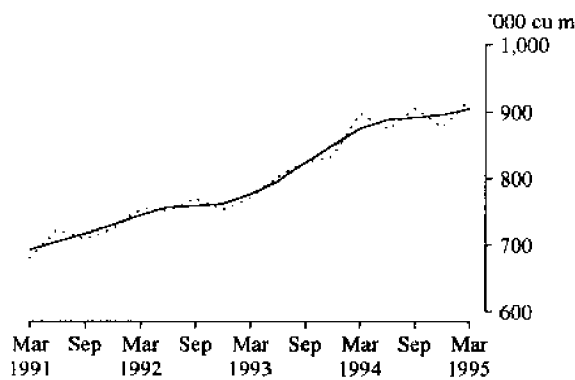
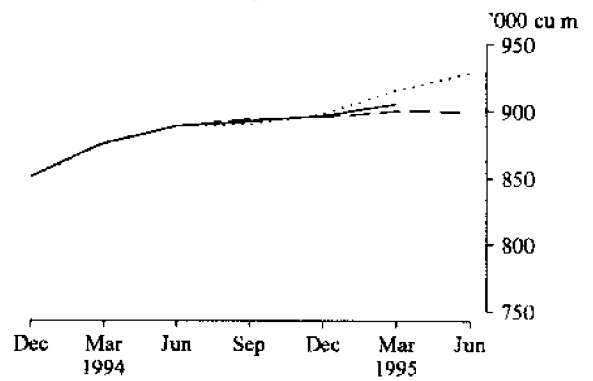
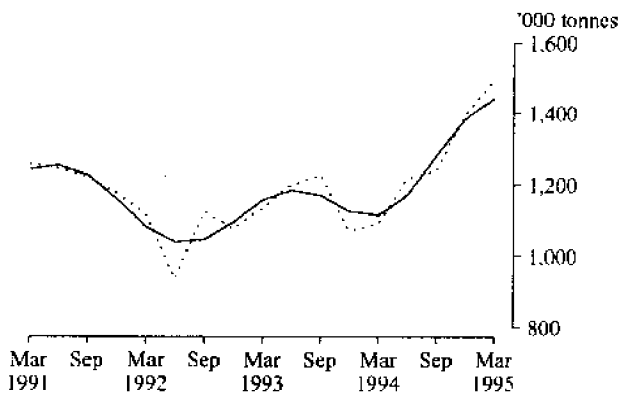
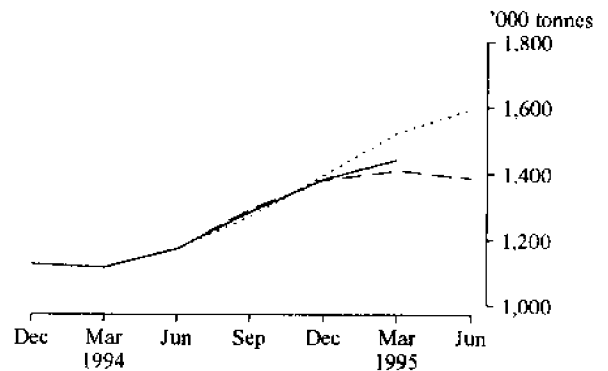
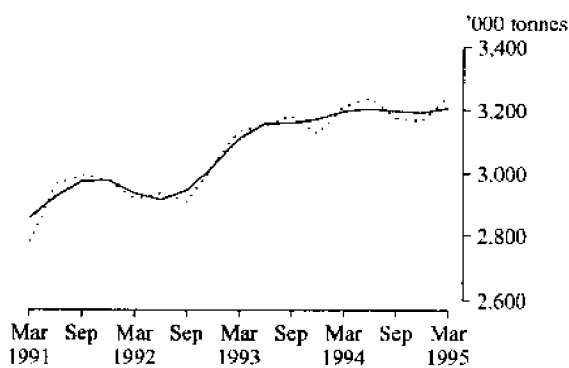
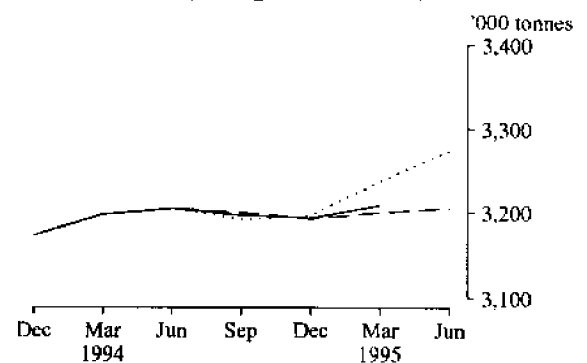


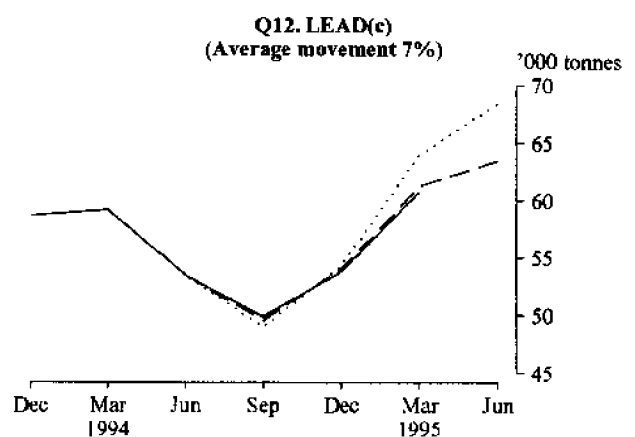
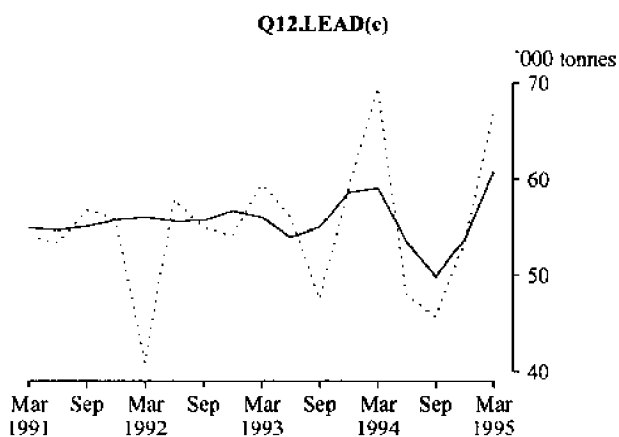
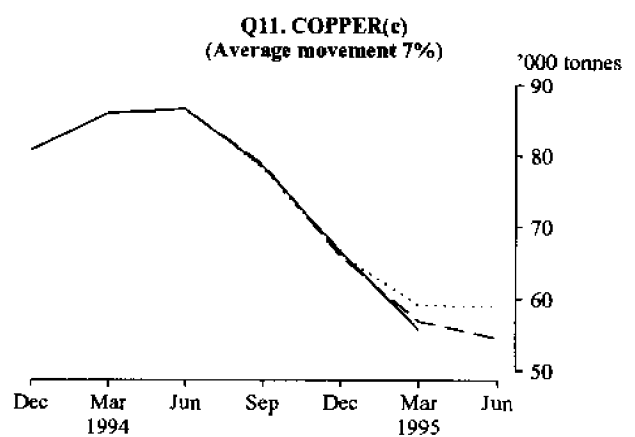
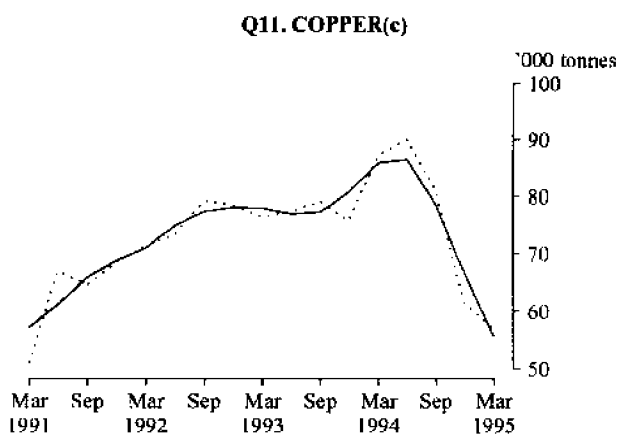
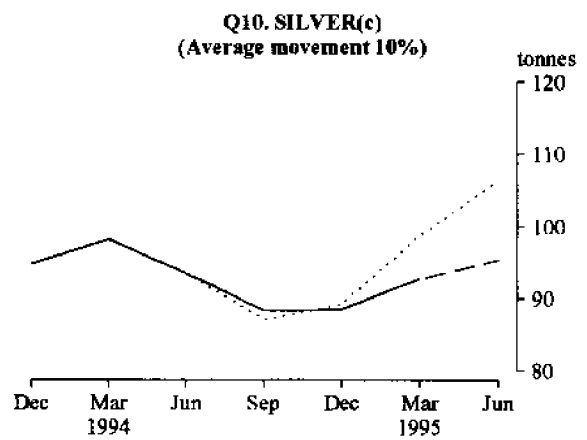
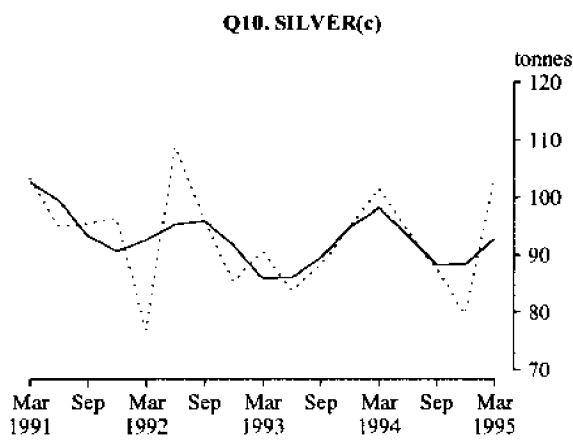
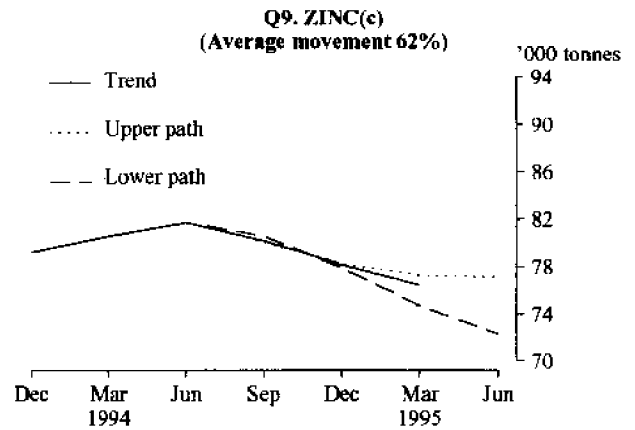
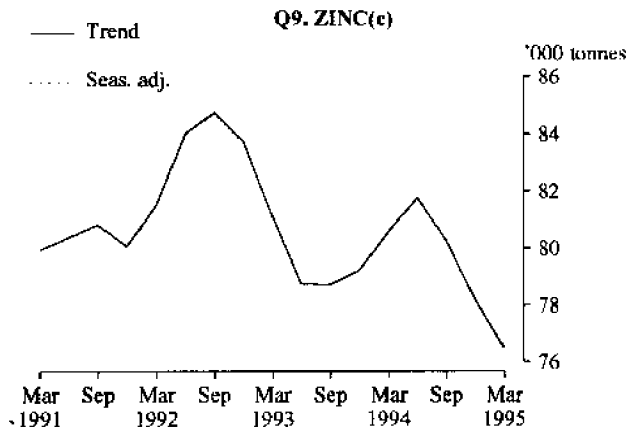
M37. READY MIXED CONCRETE**M37. READY MIXED CONCRETE**
(Average movement 4%)**M38. BASIC IRON, SPIEGELEISEN
AND SPONGE IRON****M38. BASIC IRON, SPIEGELEISEN
AND SPONGE IRON**
(Average movement 5%)**M39. BLOOMS AND SLABS****M39. BLOOMS AND SLABS**
(Average movement 5%)**M40. INSULATED WIRE****M40. INSULATED WIRE**
(Average movement 8%)

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. HOT WATER HEATERS****M45. HOT WATER HEATERS**
(Average movement 9%)

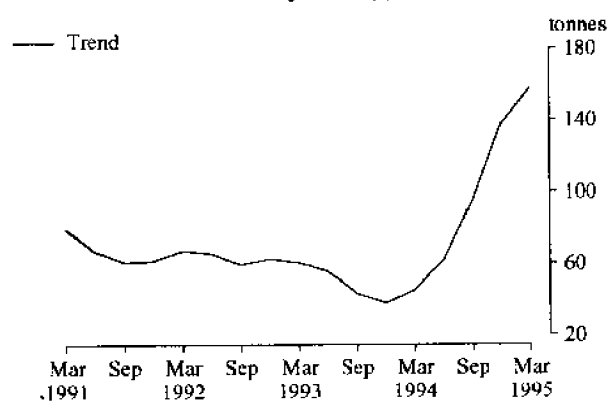
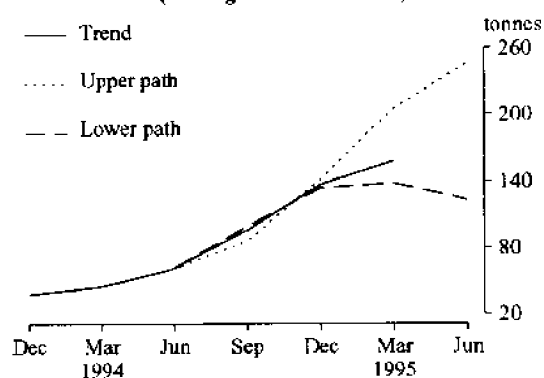
M46. CLOTHES WASHING MACHINES, DOMESTIC**M46. CLOTHES WASHING MACHINES, DOMESTIC**
(Average movement 9%)**M47. ELECTRIC MOTORS****M47. ELECTRIC MOTORS**
(Average movement 7%)**M48. ELECTRICITY****M48. ELECTRICITY**
(Average movement 1%)**M49. GAS****M49. GAS**
(Average movement 3%)

Q1. MEN'S AND BOYS' TROUSERS**Q1. MEN'S AND BOYS' TROUSERS**
(Average movement 7%)**Q2. WOMEN'S AND GIRLS' LONG TROUSERS****Q2. WOMEN'S AND GIRLS' LONG TROUSERS**
(Average movement 11%)**Q3. JEANS****Q3. JEANS**
(Average movement 6%)**Q4. MEN'S SHIRTS****Q4. MEN'S SHIRTS**
(Average movement 7%)

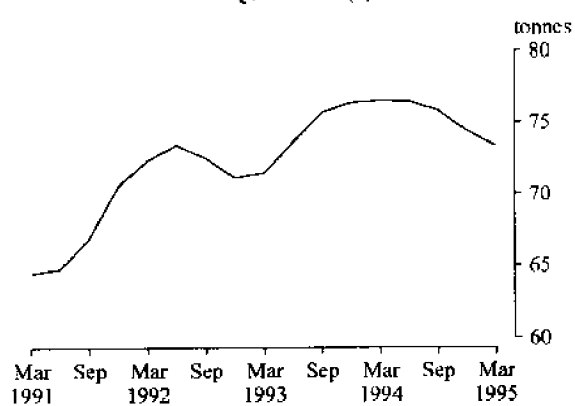
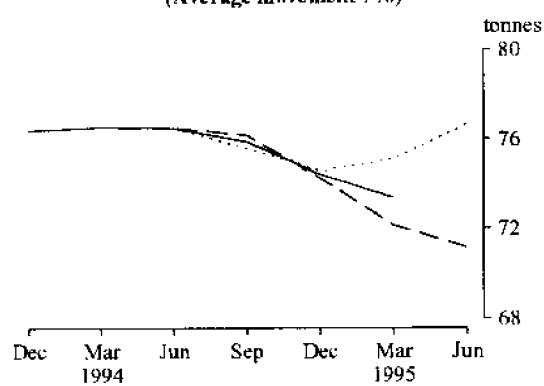
Q5. WOMEN'S SHIRTS AND BLOUSES**Q5. WOMEN'S SHIRTS AND BLOUSES**
(Average movement 11%)**Q6. UNDRESSED SAWN TIMBER****Q6. UNDRESSED SAWN TIMBER**
(Average movement 3%)**Q7. HARDWOOD WOODCHIPS****Q7. HARDWOOD WOODCHIPS**
(Average movement 7%)**Q8. ALUMINA(c)****Q8. ALUMINA(c)**
(Average movement 2%)



Q13. TIN(c)

Q13. TIN(c)
(Average movement 62%)

Q14. GOLD(c)

Q14. GOLD(c)
(Average movement 7%)

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No. Item	Series	Unit	1994		1995							Percentage changes between latest month shown and-	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	prev. month	same month prev. year
M1. Red meat	Orig.	'000 tonnes	249	220	188	203	240	199	r 243	226	n.y.a.	-7.0	0.9
	S. adj.	"	220	241	225	212	217	218	r 220	226	n.y.a.	2.7	2.3
	Trend r	"	232	229	224	221	219	219	219	219	n.y.a.	0.0	-6.0
M2. Chicken meat	Orig.	tonnes	35,331	41,737	35,136	37,796	r 42,383	r 37,823	r 36,615	37,644	n.y.a.	2.8	-11.0
	S. adj.	"	35,608	41,986	34,213	39,770	r 42,051	r 36,819	r 36,767	36,748	n.y.a.	-0.1	-9.1
	Trend r	"	38,458	38,385	38,467	38,554	38,521	38,222	37,780	37,110	n.y.a.	-1.8	-7.8
M3. Cheese(a)	Orig.	"	24,516	r 23,425	20,825	r 16,304	r 17,101	15,851	13,690	8,134	n.y.a.	-40.6	-10.4
	S. adj. r	"	17,355	17,678	17,268	16,666	17,092	19,642	21,667	16,391	n.y.a.	-24.4	-12.6
	Trend r	"	16,967	17,211	17,408	17,725	18,136	18,525	18,813	18,965	n.y.a.	0.8	-7.4
M4. Butter(a)	Orig. r	"	19,902	18,458	15,792	13,750	12,762	6,902	5,116	6,538	n.y.a.	27.8	-9.2
	S. adj. r	"	11,686	11,587	12,253	13,896	13,570	9,811	9,933	13,752	n.y.a.	38.4	-9.7
	Trend r	"	11,829	12,198	12,376	12,314	12,145	11,938	11,784	11,708	n.y.a.	-0.6	-9.2
M5. Flour of wheat or of meslin	Orig. r	'000 tonnes	119	107	96	105	116	98	116	122	108	-11.4	-4.1
	S. adj. r	"	115	114	108	109	108	107	110	113	113	0.5	-2.4
	Trend r	"	114	112	110	109	109	109	110	111	112	1.0	-4.7
M6. Prepared food from cereals	Orig.	tonnes	7,625	8,313	7,726	7,876	9,736	8,576	8,744	r 9,942	5,724	-42.4	4.9
	S. adj. r	"	7,716	8,623	9,715	8,135	8,739	9,504	7,828	9,558	5,386	-43.6	2.2
	Trend r	"	8,402	8,545	8,748	8,900	8,891	8,690	8,345	7,911	7,431	-6.1	-8.4
M7. Biscuits	Orig.	"	12,580	11,140	5,898	10,690	12,102	8,787	11,625	r 11,931	11,228	-5.9	0.4
	S. adj. r	"	11,340	13,033	9,213	11,008	10,533	10,376	11,200	11,075	10,876	-1.8	0.3
	Trend r	"	11,516	11,525	11,379	11,130	10,905	10,794	10,786	10,811	10,957	1.3	2.0
M8. Chocolate based confectionery	Orig.	"	10,403	9,503	5,853	9,334	9,785	6,495	8,588	9,588	10,027	4.6	13.2
	S. adj. r	"	9,352	9,953	10,445	9,262	8,608	7,794	8,106	9,238	10,354	12.1	17.8
	Trend r	"	9,796	9,778	9,526	9,156	8,840	8,680	8,709	8,883	9,139	2.9	2.9
M9. Other confectionery	Orig.	"	7,028	5,771	3,292	5,475	5,946	4,341	5,680	r 6,498	5,626	-13.4	-6.4
	S. adj. r	"	5,898	6,075	5,938	5,832	5,640	5,518	5,624	6,090	5,478	-10.0	-5.0
	Trend r	"	6,102	6,008	5,891	5,790	5,731	5,699	5,682	5,671	5,674	0.0	-4.7
M10. Malt	Orig.	"	50,612	48,245	46,155	47,882	41,548	45,213	50,270	44,980	46,118	2.5	0.6
	S. adj. r	"	47,229	49,167	47,664	47,130	41,057	48,803	46,151	45,716	47,689	4.3	2.4
	Trend r	"	47,710	47,462	46,976	46,432	46,052	45,940	46,075	46,323	46,706	0.8	0.6
M11. Beer	Orig.	mil litres	190	182	138	r 136	r 152	127	151	130	119	-8.2	5.9
	S. adj. r	"	152	149	144	147	143	146	154	152	137	-9.9	-6.9
	Trend r	"	150	148	147	147	147	147	147	147	146	-0.4	-0.2
M12. Tobacco and cigarettes (b)	Orig.	tonnes	2,200	1,836	771	2,088	1,855	1,345	2,084	1,855	2,157	16.3	-10.8
	S. adj. r	"	1,999	2,016	1,345	1,920	1,652	1,735	1,752	1,772	1,883	6.3	-10.9
	Trend r	"	2,048	1,957	1,863	1,789	1,751	1,747	1,758	1,775	1,808	1.8	-13.1
M13. Man-made fibre woven fabric	Orig.	'000 sq m	15,423	13,615	10,704	15,943	18,309	12,092	15,089	r 15,130	13,874	-8.3	-17.5
	S. adj. r	"	14,593	15,256	17,698	15,564	16,045	13,379	14,168	13,691	13,463	-1.7	-15.7
	Trend r	"	15,981	15,945	15,854	15,630	15,246	14,703	14,141	13,664	13,225	-3.2	-17.9
M14. Cotton woven fabric	Orig.	"	4,143	3,963	2,089	4,383	5,478	3,640	4,554	r 5,242	4,584	-12.6	10.3
	S. adj. r	"	4,187	4,386	5,391	4,355	4,528	3,790	4,277	4,386	4,631	5.6	16.9
	Trend r	"	4,355	4,487	4,543	4,514	4,431	4,338	4,292	4,295	4,303	0.2	4.7

For footnotes see end of tables.

PRODUCTION STATISTICS, AUSTRALIA, JULY 1995.

No. Item	Series	Unit	1994		1995							Percentage changes between latest month shown and-	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	prev. month	same month prev. year
M15. Cotton yarn	Orig.	tonnes	2,971	2,296	1,409	2,771	3,469	2,455	3,327	r 3,252	2,802	-13.8	2.4
	S. adj. r	"	2,819	2,637	2,379	2,918	2,941	2,781	3,176	2,648	2,837	7.1	9.1
	Trend r	"	2,639	2,664	2,712	2,772	2,830	2,872	2,891	2,893	2,885	-0.3	10.2
M16. Wool yarn	Orig.	"	2,240	1,651	1,364	1,930	1,910	1,493	1,956	r 1,917	2,010	4.8	0.0
	S. adj. r	"	1,960	2,041	2,092	1,944	1,887	1,785	1,749	1,820	1,986	9.1	2.0
	Trend r	"	2,033	2,032	1,997	1,943	1,889	1,851	1,831	1,828	1,837	0.5	-5.6
M17. Wool woven fabric	Orig.	'000 sq m	775	566	410	764	875	700	930	r 650	521	-19.8	-18.1
	S. adj. r	"	646	683	657	696	742	763	810	710	555	21.7	-14.3
	Trend r	"	687	681	691	712	732	737	728	707	682	3.6	-2.6
M18. Textile floor coverings	Orig.	"	4,873	3,580	2,618	4,286	r 4,105	r 3,040	r 3,865	r 3,663	4,037	10.2	-1.0
	S. adj. r	"	4,171	3,966	4,497	4,284	3,899	3,539	3,497	3,576	4,144	15.9	0.0
	Trend r	"	4,175	4,225	4,186	4,067	3,914	3,791	3,712	3,683	3,669	-0.4	-8.6
M19. Footwear excluding sports footwear	Orig.	'000 pairs	1,467	1,119	677	1,257	1,416	1,047	1,289	r 1,214	1,218	0.3	-12.2
	S. adj. r	"	1,356	1,285	1,261	1,221	1,192	1,070	1,167	1,212	1,240	2.4	12.4
	Trend r	"	1,342	1,299	1,251	1,208	1,180	1,168	1,168	1,177	1,190	1.1	-16.0
M20. Sports footwear	Orig.	"	31	21	6	26	34	24	27	25	24	-3.7	-12.0
	S. adj. r	"	26	31	15	23	27	24	24	27	25	7.1	-10.9
	Trend r	"	25	24	23	23	24	25	26	27	26	-1.1	-7.7
M21. Newsprint	Orig.	tonnes	34,619	31,785	37,800	39,472	37,384	37,217	41,128	36,245	35,192	-2.9	3.7
	S. adj. r	"	33,369	33,119	35,011	40,313	36,727	36,363	38,687	39,215	35,408	9.7	2.8
	Trend r	"	33,042	34,176	35,595	36,758	37,482	37,797	37,844	37,747	37,434	0.8	8.5
M22. Wood pulp	Orig.	"	78,282	75,920	81,003	84,932	96,090	85,549	86,014	95,072	77,150	-18.9	-9.4
	S. adj. r	"	78,536	72,277	80,837	89,795	92,527	88,503	89,405	91,848	77,892	-15.2	9.9
	Trend r	"	77,004	78,574	81,834	85,602	88,376	89,420	89,101	88,061	86,113	-2.2	0.1
M23. Unlaminated particle board	Orig.	'000 cu m	78	61	53	71	81	66	69	71	62	-12.7	5.6
	S. adj. r	"	65	77	96	76	68	73	60	72	65	9.8	-4.8
	Trend r	"	71	73	74	74	74	73	71	70	69	1.5	0.7
M24. Paper	Orig.	'000 tonnes	147	145	146	145	174	146	150	r 169	144	14.7	2.6
	S. adj. r	"	146	155	162	161	162	147	163	160	133	-17.2	6.5
	Trend r	"	149	154	158	159	159	157	155	151	148	-2.4	5.7
M25. Paperboard containers	Orig.	tonnes	106,492	85,124	78,035	82,938	91,957	70,911	r 96,265	r 87,348	86,969	-0.4	0.5
	S. adj.	"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Trend	"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
M26. Automotive gasoline(c)	Orig.	megalitres	1,416	1,561	1,519	1,428	1,442	1,496	1,528	n.y.a.	n.y.a.	2.1	-4.0
	S. adj. r	"	1,537	1,539	1,435	1,502	1,438	1,569	1,480	n.y.a.	n.y.a.	-5.7	-4.0
	Trend r	"	1,499	1,494	1,490	1,491	1,492	1,494	1,494	n.y.a.	n.y.a.	0.0	1.2
M27. Fuel oil(c)	Orig.	"	152	194	228	183	274	209	208	n.y.a.	n.y.a.	-0.5	18.9
	S. adj.	"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Trend r	"	189	196	204	213	220	225	227	n.y.a.	n.y.a.	0.9	20.7
M28. Aviation turbine fuel(c)	Orig.	"	367	383	368	359	368	366	385	n.y.a.	n.y.a.	5.2	9.1
	S. adj. r	"	353	364	334	378	390	388	394	n.y.a.	n.y.a.	1.6	13.2
	Trend r	"	355	356	362	370	379	387	394	n.y.a.	n.y.a.	1.8	7.6

For footnotes see end of tables.

PRODUCTION STATISTICS, AUSTRALIA, JULY 1995.

No. Item	Series	Unit	1994		1995							Percentage changes between latest month shown and-	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	prev. month	same month prev. year
M29. Automotive diesel oil(c)	Orig.	megalitres	914	970	940	894	924	966	979	n.y.a.	n.y.a.	1.4	-2.0
	S. adj. r	"	928	900	899	945	942	995	958	n.y.a.	n.y.a.	-3.7	-2.2
	Trend r	"	917	914	922	934	947	960	971	n.y.a.	n.y.a.	1.2	3.3
M30. Plastics in primary forms	Orig.	'000 tonnes	102	95	96	99	113	99	100	r 104	116	12.0	10.5
	S. adj. r	"	97	105	107	104	107	106	96	112	112	0.7	7.5
	Trend r	"	102	103	104	105	105	105	106	107	108	1.2	4.7
M31. Rigid PVC tubes pipes and hoses	Orig.	tonnes	8,988	7,276	4,809	8,233	8,949	5,663	9,428	r 9,370	7,354	-21.5	-24.8
	S. adj. r	"	8,056	7,584	8,547	7,774	8,305	7,379	7,980	8,862	6,161	-30.5	-27.6
	Trend r	"	7,610	7,730	7,906	8,050	8,060	7,957	7,815	7,646	7,417	-3.0	-9.5
M32. Polyethylene bottles up to two litres	Orig.	million	124	122	117	108	r 110	96	r 107	r 93	95	2.2	n.a.
	S. adj. r	"	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.a.
	Trend	"	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.a.
M33. Paint	Orig.	'000 litres	17,384	17,341	14,745	15,771	17,954	r 14,319	r 15,365	r 17,904	14,213	-20.6	-20.4
	S. adj. r	"	16,361	16,898	19,470	16,175	15,852	15,917	15,046	17,983	14,626	-18.7	-14.6
	Trend r	"	17,130	17,164	17,066	16,839	16,522	16,201	15,946	15,755	15,548	-1.3	-5.3
M34. Superphosphates	Orig.	'000 tonnes	180	140	139	140	160	147	101	69	59	-13.9	-13.7
	S. adj. r	"	153	110	109	102	106	123	97	92	103	12.4	-13.4
	Trend r	"	115	116	115	111	107	105	103	101	99	1.8	-11.8
M35. Portland cement	Orig.	"	615	604	455	552	619	538	583	582	568	-2.4	-13.8
	S. adj. r	"	540	615	625	604	603	579	548	560	539	-3.8	-13.7
	Trend r	"	600	599	600	600	593	581	567	553	543	-1.9	-11.2
M36. Clay bricks	Orig.	million	168	148	119	150	161	136	166	157	141	-10.2	-10.8
	S. adj. r	"	156	162	175	156	146	151	147	149	141	-5.3	-10.3
	Trend r	"	161	162	161	158	154	151	147	145	143	1.5	-8.8
M37. Ready mixed concrete	Orig.	'000 cu m	1,488	1,189	1,020	r 1,218	1,425	1,132	r 1,316	r 1,291	1,270	-1.6	-11.6
	S. adj. r	"	1,359	1,298	1,335	1,301	1,310	1,277	1,185	1,241	1,282	3.3	-10.5
	Trend r	"	1,350	1,333	1,316	1,300	1,283	1,266	1,253	1,244	1,238	-0.5	-11.9
M38. Basic iron, spiegeleisen and sponge iron	Orig.	'000 tonnes	627	590	637	563	634	605	619	595	625	5.0	-2.8
	S. adj. r	"	612	600	637	636	647	624	622	600	601	0.1	-2.8
	Trend r	"	613	619	627	631	631	627	620	612	604	-1.4	-5.1
M39. Blooms and slabs	Orig.	"	653	626	679	601	626	638	635	629	658	4.6	-0.4
	S. adj. r	"	644	624	666	658	640	666	656	647	644	-0.5	-0.3
	Trend r	"	645	647	649	652	654	654	653	651	647	-0.6	-3.2
M40. Insulated wire	Orig.	tonnes	6,881	5,167	3,764	6,359	6,506	4,595	6,720	r 5,293	5,383	1.7	-7.2
	S. adj. r	"	6,366	6,142	6,658	6,379	5,810	4,664	6,136	5,562	4,882	-12.2	-7.5
	Trend r	"	6,316	6,365	6,286	6,104	5,879	5,663	5,474	5,315	5,163	-2.9	-3.3
M41. Cars and station wagons	Orig.	number	30,873	20,991	10,378	24,203	26,690	16,308	29,585	28,157	27,217	-3.3	7.9
	S. adj. r	"	26,948	26,138	22,199	24,414	23,293	19,847	25,225	26,711	25,947	-2.9	7.8
	Trend r	"	26,267	25,389	24,248	23,373	23,121	23,446	24,088	24,845	25,712	3.5	2.1
M42. Vehicles for goods and materials	Orig.	"	2,621	1,875	1,165	2,386	2,899	1,503	2,579	2,401	2,291	-4.6	8.1
	S. adj. r	"	2,422	2,354	2,603	2,497	2,461	1,744	2,202	2,188	2,277	4.1	8.3
	Trend r	"	2,374	2,435	2,435	2,382	2,299	2,218	2,164	2,138	2,123	-0.7	2.9

For footnote see end of tables.

PRODUCTION STATISTICS, AUSTRALIA, JULY 1995.

No. Item	Series	Unit	1994		1995							Percentage changes between latest month shown and-	
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	prev. month	same month prev. year
M43. Telephones	Orig.	'000	143	140	104	170	155	81	126	135	116	-13.8	n.a.
	S. adj. r	"	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.a.
	Trend r	"	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.y.a.	n.a.
M44. Domestic refrigerators	Orig.	number	40,757	34,119	32,499	34,436	42,025	23,471	37,336	32,064	31,596	1.5	1.2
	S. adj. r	"	34,276	36,046	32,878	33,471	34,344	28,691	35,240	35,835	37,440	4.5	0.5
	Trend r	"	34,021	33,969	33,685	33,235	33,052	33,347	34,015	34,868	35,901	3.0	-2.4
M45. Hot water heaters	Orig.	"	63,758	51,114	33,371	56,041	66,448	39,302	70,875	55,761	54,001	-3.2	13.2
	S. adj. r	"	56,982	55,987	67,743	56,973	57,761	53,242	61,448	50,009	54,211	8.4	17.1
	Trend r	"	53,656	55,018	55,927	56,185	56,091	55,852	55,467	54,946	54,451	-0.9	10.5
M46. Clothes washing machines domestic	Orig.	"	30,394	20,995	13,999	23,091	27,426	20,149	26,159	26,023	27,643	6.2	-8.4
	S. adj. r	"	26,490	24,875	27,459	24,266	24,262	22,918	25,363	25,214	25,811	2.4	-4.7
	Trend r	"	26,154	25,892	25,465	24,945	24,590	24,516	24,630	24,868	25,064	0.8	-5.1
M47. Electric motors	Orig.	'000	274	207	136	264	329	206	275	r 278	243	-12.6	-11.8
	S. adj. r	"	248	237	213	259	278	243	253	264	258	2.3	-9.5
	Trend r	"	245	241	242	247	252	256	259	260	261	0.5	6.2
M48. Electricity	Orig.	mif k Wh	13,266	13,590	13,487	12,776	13,812	r 13,032	r 14,268	r 14,473	15,359	6.1	5.2
	S. adj. r	"	13,765	13,916	13,944	13,816	13,743	13,942	13,837	13,843	14,232	2.8	5.6
	Trend r	"	13,788	13,836	13,852	13,853	13,853	13,867	13,904	13,952	14,008	0.4	4.1
M49. Gas	Orig.	terajoules	50,354	38,410	41,600	41,471	46,287	44,538	51,414	r 61,739	66,607	7.9	6.7
	S. adj. r	"	53,586	46,247	52,027	51,373	51,412	49,504	47,735	51,804	54,939	6.1	7.0
	Trend r	"	51,746	51,299	50,690	50,266	50,171	50,398	50,811	51,441	51,856	0.8	1.3

For footnotes see end of tables.

PRODUCTION STATISTICS, AUSTRALIA, MARCH QUARTER 1995.

No. Item	Series	Unit	1993				1994				1995	Percentage changes between latest quarter shown and-	
			Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	Mar.	prev. quarter	same quarter prev. year
Q1. Men's and boys' long trousers	Orig.	'000	850	1,121	968	880	753	1,037	1,031	979	795	-18.8	5.6
	S. adj.	"	972	995	942	905	863	919	1,004	1,008	913	-9.5	5.7
	Trend	"	986	971	943	900	888	931	973	981	959	-2.2	7.9
Q2. Women's and girls' long trousers	Orig.	"	428	402	352	278	461	188	407	380	628	65.4	36.3
	S. adj.	"	391	392	346	324	418	184	401	445	567	27.3	35.8
	Trend	"	377	368	359	326	316	332	393	466	505	8.4	59.9
Q3. Jeans	Orig.	"	986	1,142	1,113	891	709	945	941	770	639	-17.0	-9.9
	S. adj.	"	1,160	1,032	980	981	833	855	829	848	750	-11.5	-10.0
	Trend	"	1,096	1,059	1,000	931	879	847	834	816	782	-4.2	-11.1
Q4. Men's shirts	Orig.	"	2,443	2,829	3,476	2,834	2,145	2,574	3,151	2,552	2,113	-17.2	-1.5
	S. adj.	"	3,106	3,097	2,938	2,538	2,726	2,818	2,661	2,284	2,685	17.6	-1.5
	Trend	"	3,234	3,022	2,840	2,719	2,711	2,698	2,616	2,521	2,494	-1.1	-8.0
Q5. Women's shirts and blouses	Orig.	"	1,050	985	1,230	1,563	1,218	812	1,787	1,218	805	-34.0	-33.9
	S. adj.	"	1,232	1,309	935	1,451	1,421	1,082	1,361	1,133	936	17.4	-34.1
	Trend	"	1,225	1,181	1,106	1,378	1,433	1,455	1,319	1,149	1,037	-9.8	-27.7
Q6. Undressed sawn timber(c)	Orig.	'000 cu m	709	831	853	847	827	905	936	890	845	-5.1	2.2
	S. adj.	"	772	803	826	835	899	875	906	878	918	4.6	2.1
	Trend	"	777	796	825	851	876	890	893	897	905	1.0	3.3
Q7. Hardwood woodchips	Orig.	'000 tonnes	1,067	1,212	1,270	1,088	1,026	1,228	1,286	1,417	1,405	0.8	36.9
	S. adj.	"	1,135	1,201	1,226	1,072	1,092	1,216	1,241	1,396	1,495	7.0	36.9
	Trend	"	1,157	1,185	1,169	1,125	1,115	1,172	1,284	1,384	1,443	4.3	29.4
Q8. Alumina(c)	Orig.	"	3,094	3,125	3,225	3,154	3,172	3,209	3,215	3,196	3,203	0.2	1.0
	S. adj.	"	3,137	3,153	3,183	3,124	3,216	3,237	3,174	3,166	3,247	2.6	1.0
	Trend	"	3,111	3,159	3,162	3,173	3,197	3,204	3,197	3,193	3,208	0.5	0.3
Q9. Zinc(c)	Orig.	"	76	88	73	79	82	81	82	78	72	-7.7	-12.2
	S. adj.	"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Trend	"	81	79	79	79	81	82	80	78	76	-2.2	-5.1
Q10. Silver(c)	Orig.	tonnes	80	93	88	95	91	104	88	79	93	17.7	2.2
	S. adj.	"	91	84	88	95	102	94	88	80	103	29.6	1.4
	Trend	"	86	86	90	95	98	94	88	89	93	4.9	-5.5
Q11. Copper(c)	Orig.	'000 tonnes	71	75	84	79	81	87	86	64	53	-17.2	-34.6
	S. adj.	"	77	78	79	76	87	90	81	61	57	-7.1	-34.6
	Trend	"	78	77	77	81	86	87	78	66	56	-16.1	-35.1
Q12. Lead(c)	Orig.	"	47	62	51	61	55	53	49	55	53	3.6	-3.6
	S. adj.	"	60	56	48	59	69	48	46	53	67	25.2	-3.8
	Trend	"	56	54	55	59	59	54	50	54	61	12.9	2.7
Q13. Tin(c)	Orig.	tonnes	73	73	13	63	18	92	70	135	180	33.3	900.0
	S. adj.	"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Trend	"	61	56	44	38	45	62	96	137	158	15.0	246.8
Q14. Gold(c)	Orig.	"	70	73	80	74	75	79	78	71	74	3.9	-1.2
	S. adj.	"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Trend	"	71	74	76	76	77	77	76	74	73	-1.4	4.2

(a) Source: Australian Dairy Corporation. (b) Source: Australian Tobacco Marketing Committee until April 1995. (c) Source: ABARE.

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 BASE 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 beverages with an alcohol content of less than 1.15 per cent
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, classified 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 fueling 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
M33	PAINT	includes architectural, decorative and industrial enamels and clears and heavy duty coatings: 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 used to make blended portland cement in house
M36	CLAY BRICKS	saleable bricks removed from kiln: excluding firebricks
M37	READY MIX CONCRETE	excludes production used or for use within the same business
M39	BLOOMS AND SLABS	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
M44	DOMESTIC REFRIGERATORS	one and two door models, includes combination refrigerator freezers
M45	HOT WATER HEATERS	includes solar
M46	CLOTHES WASHING MACHINES, DOMESTIC	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' 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	includes men's, women's, boys' and girls' jeans: excludes shorts
Q4	MEN'S 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
Q9	ZINC	primary origin only
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'.

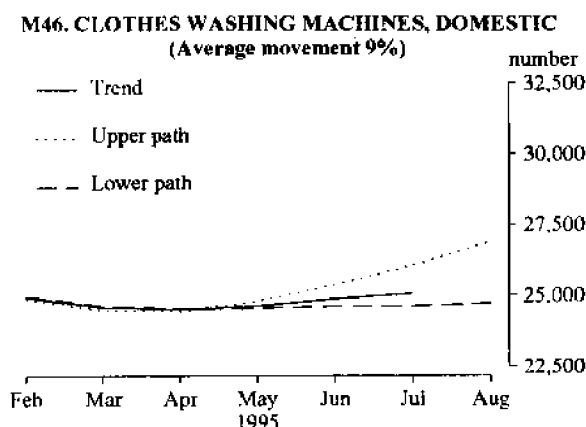
Readers should exercise care when interpreting the latest month's trend estimates because they will be revised when the next month's seasonally adjusted estimates become available. For further information, see Explanatory Notes 12 and 13.

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

Upper path The August seasonally adjusted estimate of the production of clothes washing machines, is higher than the July seasonally adjusted estimate by 9%.

Lower path The August seasonally adjusted estimate of the production of clothes washing machines, is lower than the July 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 enterprises with fewer than four persons employed or 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 the Northern Territory and 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 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*, and data on tobacco and cigarettes produced were sourced 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, so differences may occur between the general tendency (if there is one) in these items and changes in the quarterly indexes of industrial production.

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:

Livestock Products, Australia (7215.0) issued quarterly

Mining Industry, Australia (8402.0) issued annually

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

Manufacturing Industry, Australia (8221.0) issued annually

Stocks, Manufactures Sales and Expected Sales, Australia (5629.0) issued annually

Quarterly Indexes of Industrial Production, Australia (8125.0)

Foreign Trade, Australia: FASTTRACCS Service - Hardcopy Reports.
Please call (03) 6157755

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:

- refrigerators
- freezers
- water heaters
- clothes dryers
- cooking stoves, ovens and ranges
- colour television sets
- space heaters
- lawn mowers
- domestic air conditioners
- audio cassettes
- compact disks
- water meters
- brass bars, rods and sections
- polyethylene
- rubber strip
- paint
- electricity
- semi-trailers
- mineral and aerated waters
- wheat starch and glucose
- beer
- ham and bacon and canned meat
- ready mixed concrete
- concrete blocks and bricks
- 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 Geoff Frost on (03) 9615 7635

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



For more information ...

The ABS publishes a wide range of statistics and other information on Australia's economic and social conditions. Details of what is available in various publications and other products can be found in the *ABS Catalogue of Publications and Products* available at all ABS Offices (see below for contact details).

Information Consultancy Service

Information tailored to special needs of clients can be obtained from the Information Consultancy Service available at ABS Offices (see Information Inquiries below for contact details).

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This number gives 24-hour access, 365 days a year, for a range of statistics.

Electronic Services

A large range of data is available via on-line services, diskette, magnetic tape, tape cartridge and CD ROM. For more details about these electronic data services contact any ABS Office (see below) or e-mail us at:

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Internet	STAT.INFO@ABS. TELEMEMO.AU or

you can visit us on Internet at: <http://www.statistics.gov.au>

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