

**MANUFACTURING PRODUCTION, AUSTRALIA
MARCH 1995**

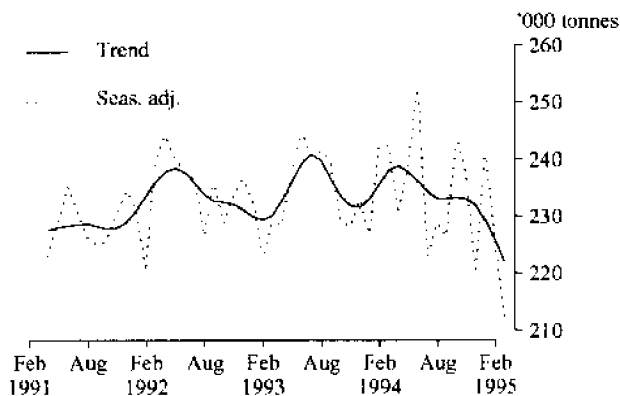
NOTES

This publication presents monthly and quarterly estimates of selected major indicators of manufacturing production for Australia. In this issue the seasonally adjusted estimates of production of superphosphates, ready mixed concrete, hot water heaters and rigid PVC tubes, pipes and hoses have been revised and new seasonal factors calculated. Please refer to the Explanatory Notes at the back of this publication.

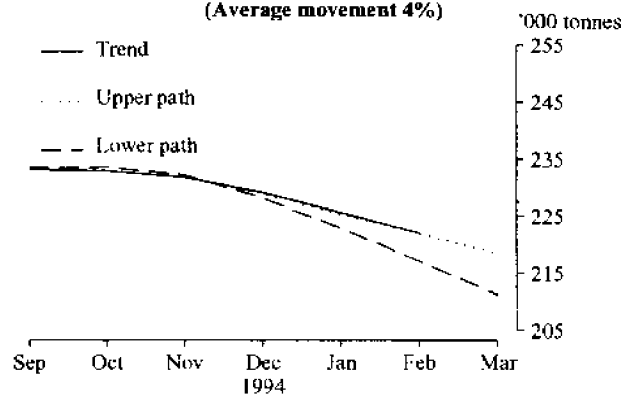
W. McLennan
Australian Statistician

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

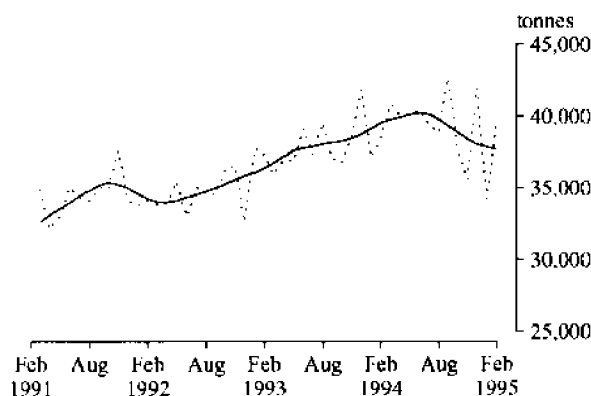
M1. RED MEAT



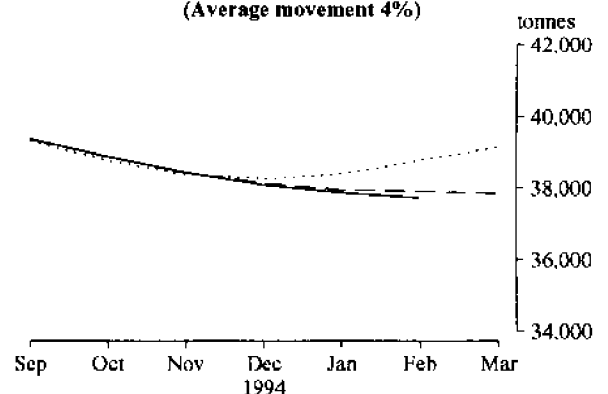
**M1. RED MEAT
(Average movement 4%)**



M2. CHICKEN MEAT



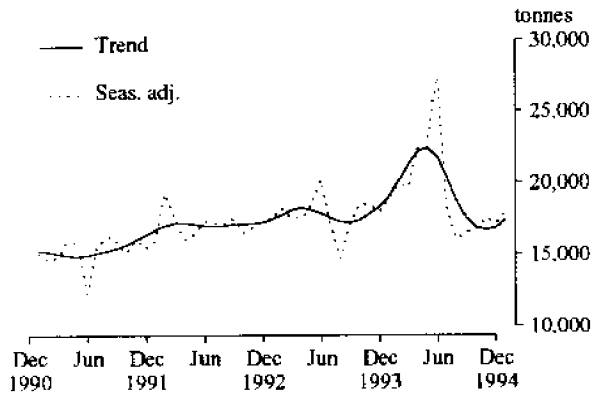
**M2. CHICKEN MEAT
(Average movement 4%)**



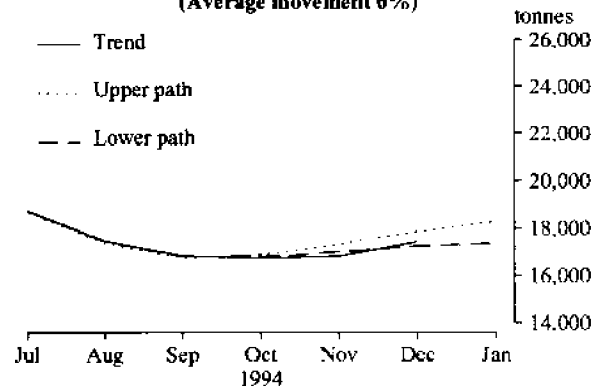
INQUIRIES

. for further information about statistics in this publication and the availability of related unpublished statistics, contact Rod Smith on Melbourne (03) 615 7635 or any ABS office.
. for information about other ABS statistics and services please refer to the back page of this publication.

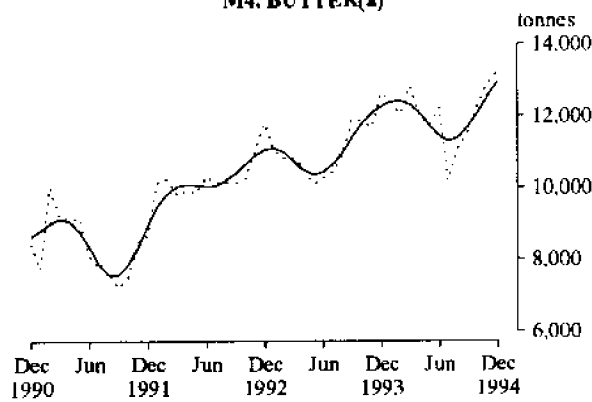
M3. CHEESE(a)



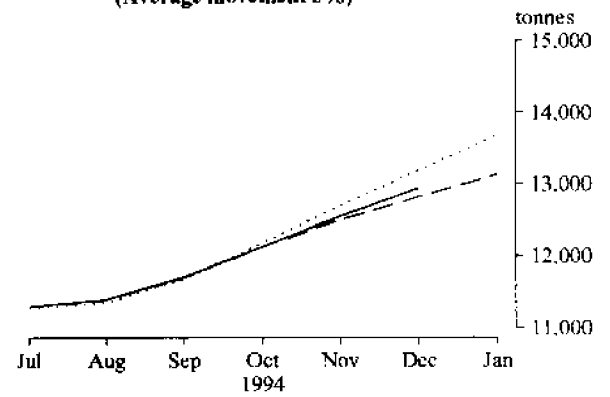
M3. CHEESE(a)
(Average movement 6%)



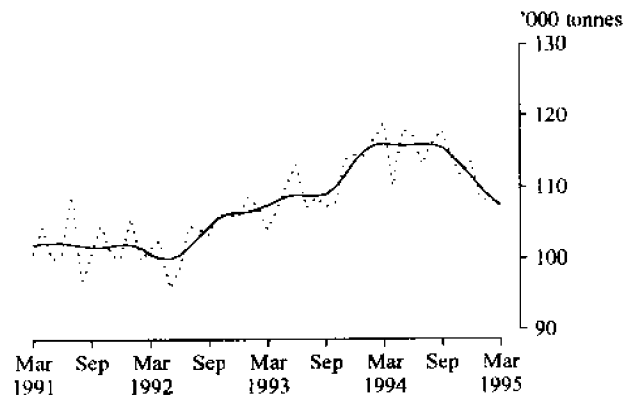
M4. BUTTER(a)



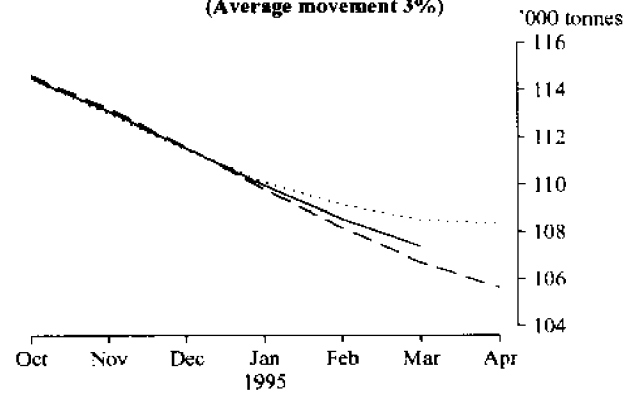
M4. BUTTER(a)
(Average movement 5%)



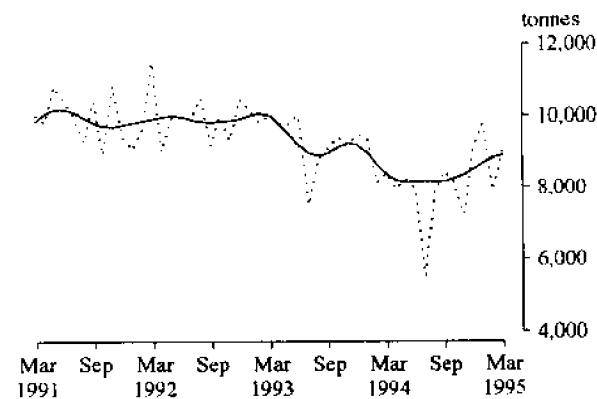
M5. FLOUR OF WHEAT OR OF MESLIN



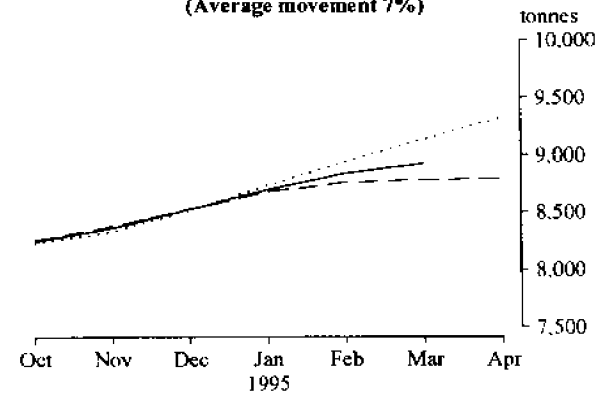
M5. FLOUR OF WHEAT OR OF MESLIN
(Average movement 3%)



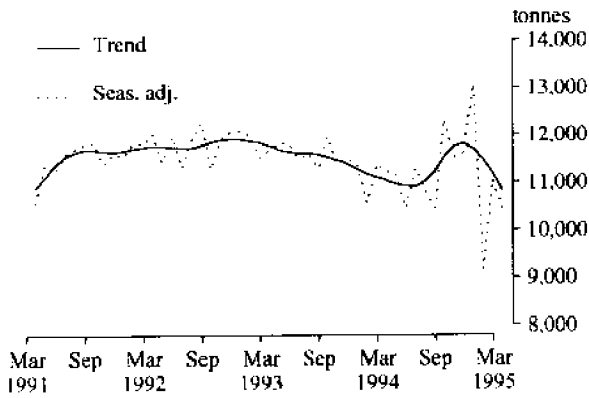
M6. PREPARED FOOD FROM CEREALS



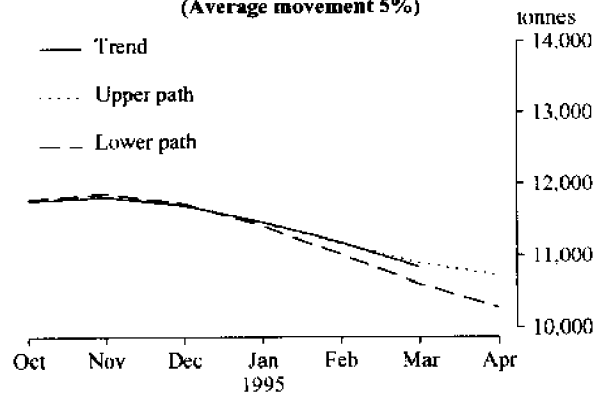
M6. PREPARED FOOD FROM CEREALS
(Average movement 7%)



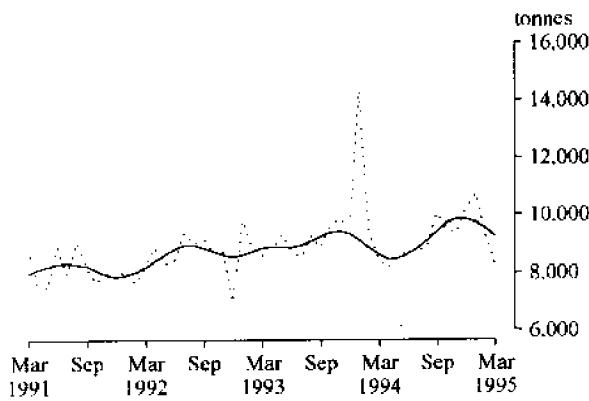
M7. BISCUITS



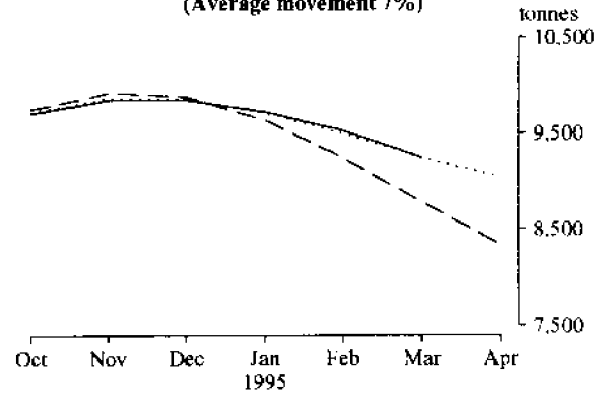
**M7. BISCUITS
(Average movement 5%)**



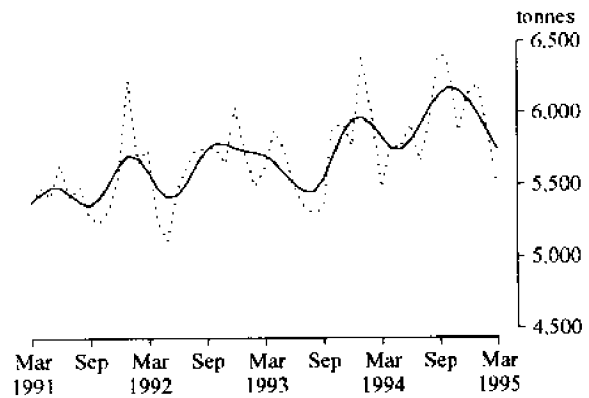
M8. CHOCOLATE BASED CONFECTIONERY



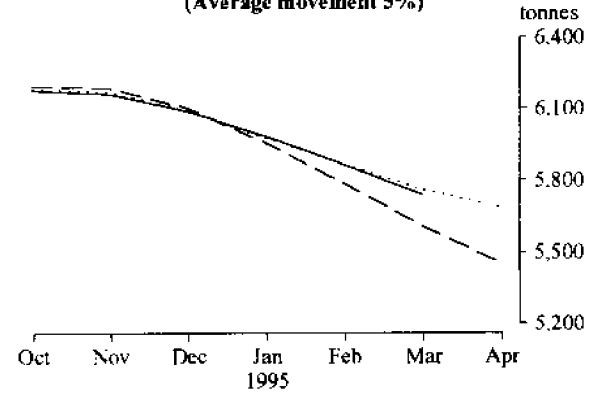
**M8. CHOCOLATE BASED CONFECTIONERY
(Average movement 7%)**



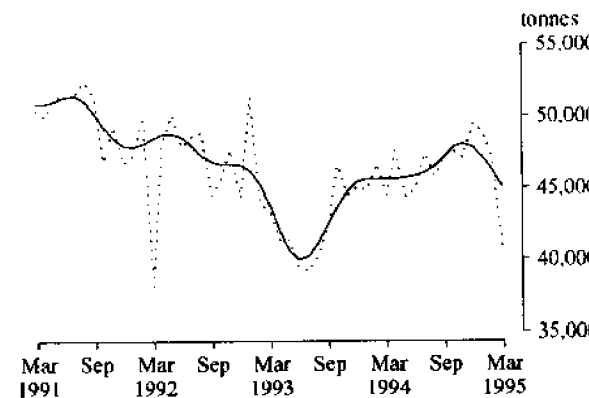
M9. OTHER CONFECTIONERY



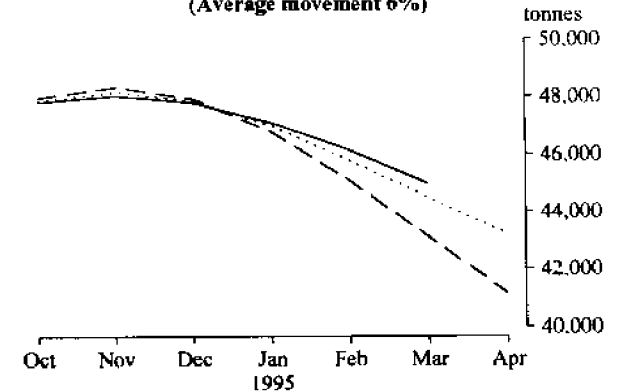
**M9. OTHER CONFECTIONERY
(Average movement 5%)**



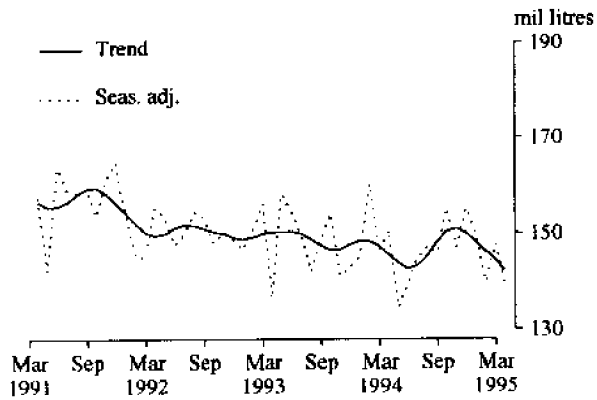
M10. MALT



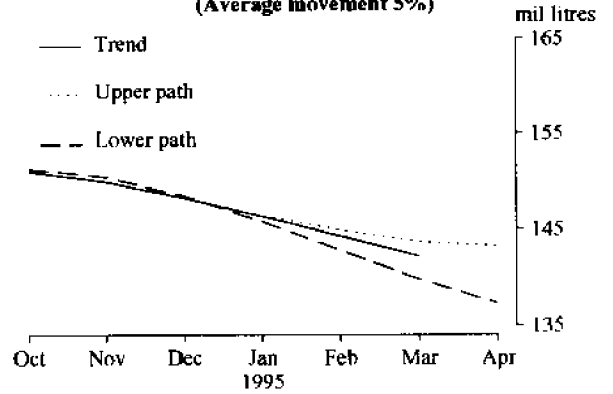
**M10. MALT
(Average movement 6%)**



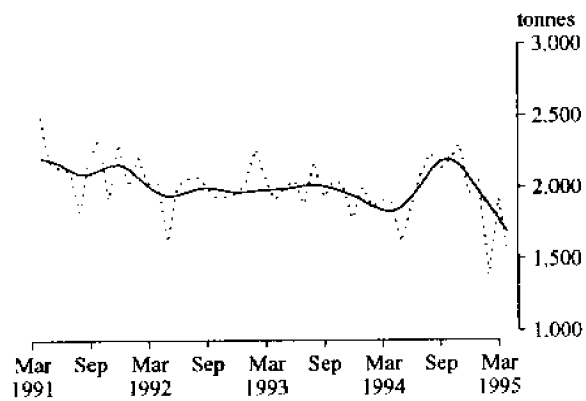
M11. BEER



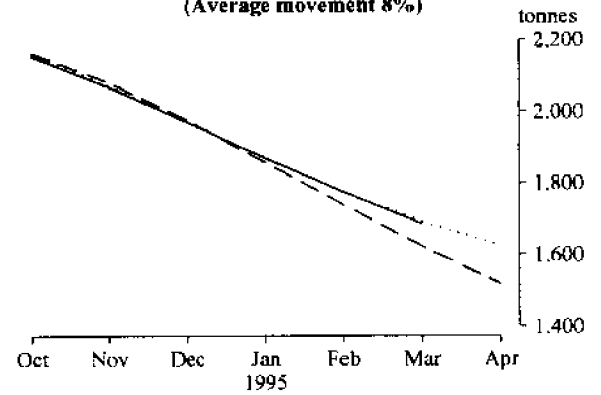
M11. BEER
(Average movement 5%)



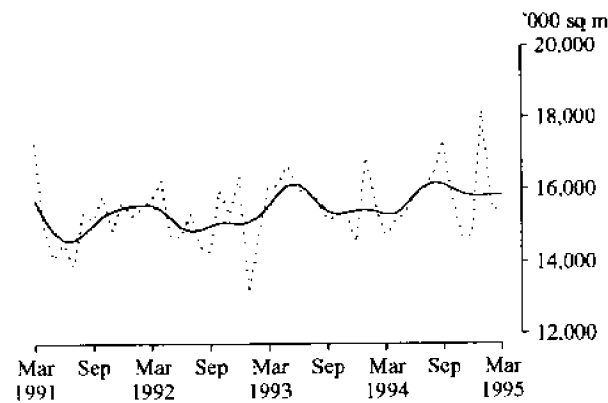
M12. TOBACCO AND CIGARETTES(b)



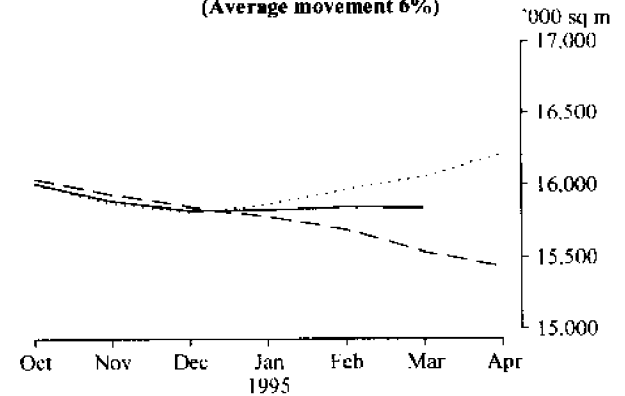
M12. TOBACCO AND CIGARETTES(b)
(Average movement 8%)



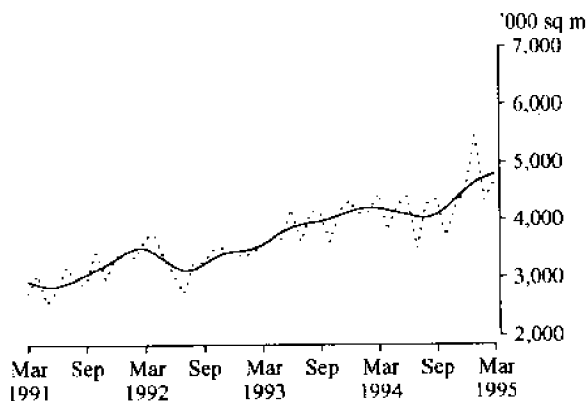
M13. MAN-MADE FIBRE WOVEN FABRIC



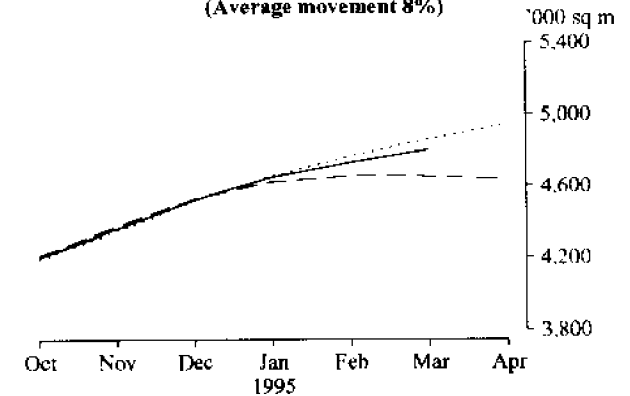
M13. MAN-MADE FIBRE WOVEN FABRIC
(Average movement 6%)



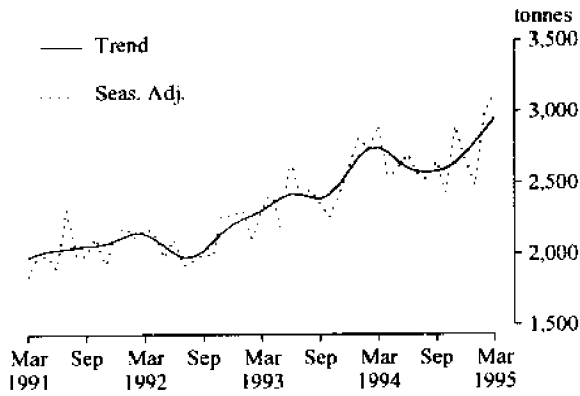
M14. COTTON WOVEN FABRIC



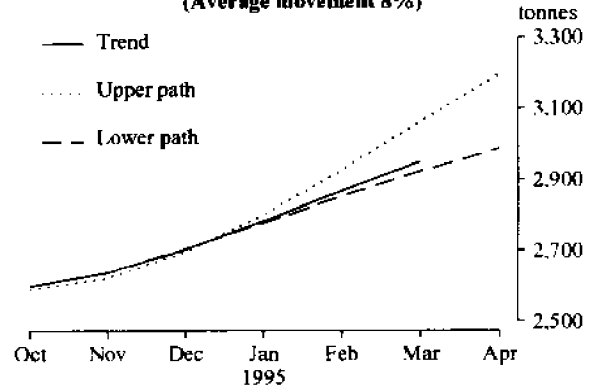
M14. COTTON WOVEN FABRIC
(Average movement 8%)



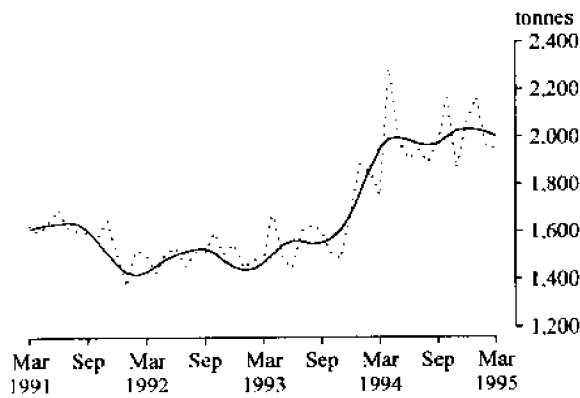
M15. COTTON YARN



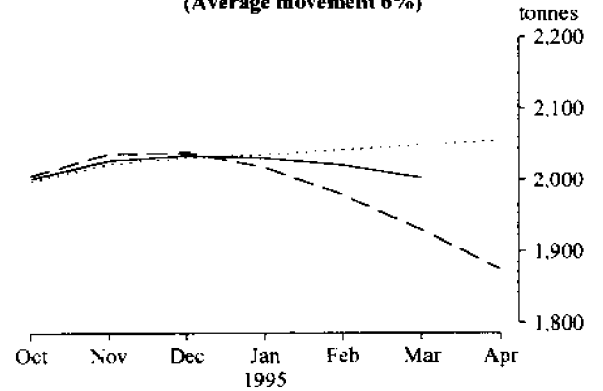
**M15. COTTON YARN
(Average movement 8%)**



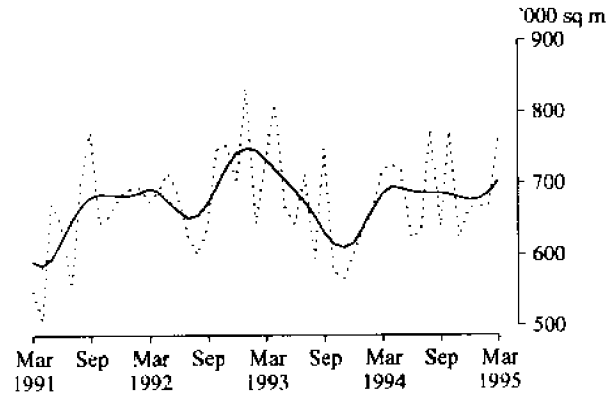
M16. WOOL YARN



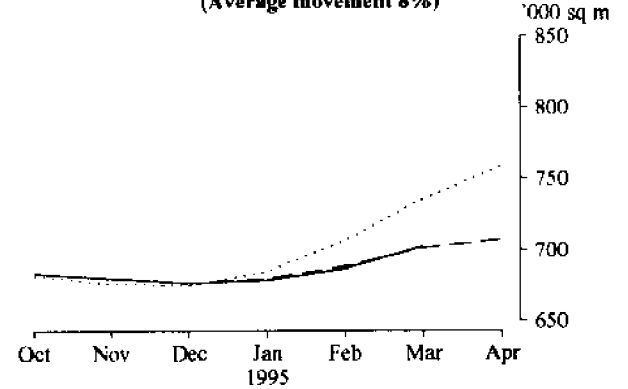
**M16. WOOL YARN
(Average movement 6%)**



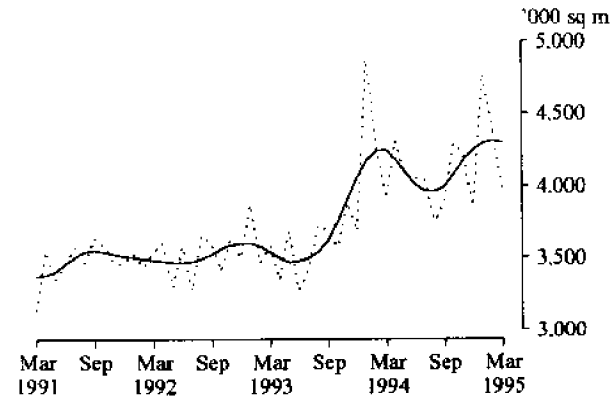
M17. WOOL WOVEN FABRIC



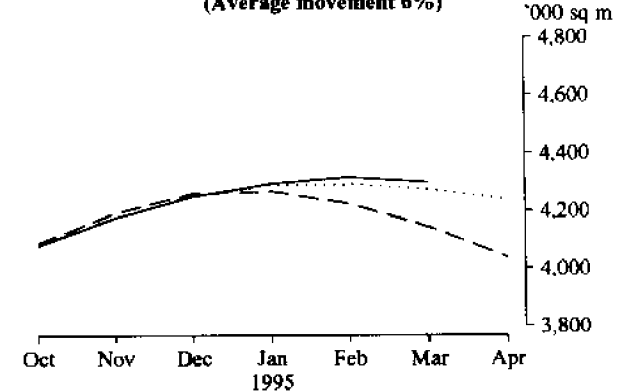
**M17. WOOL WOVEN FABRIC
(Average movement 8%)**



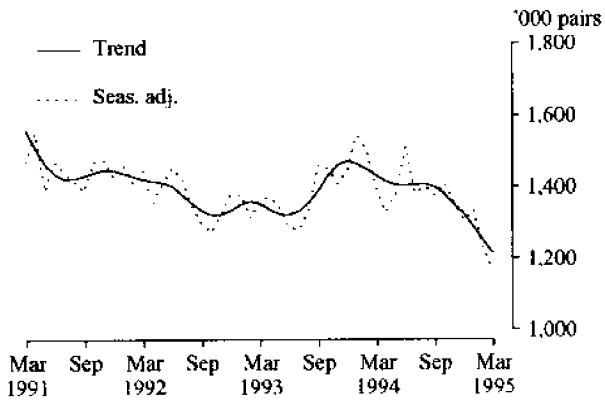
M18. TEXTILE FLOOR COVERINGS



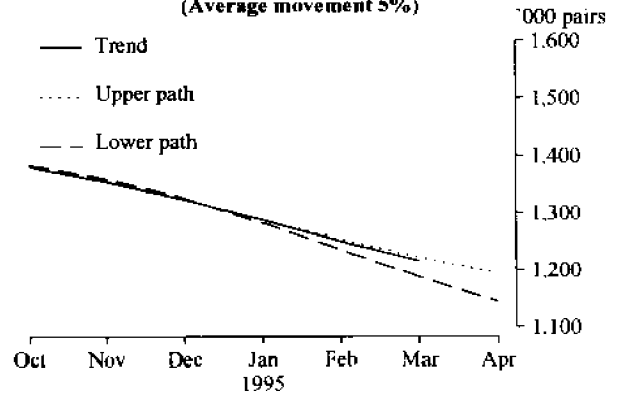
**M18. TEXTILE FLOOR COVERINGS
(Average movement 6%)**



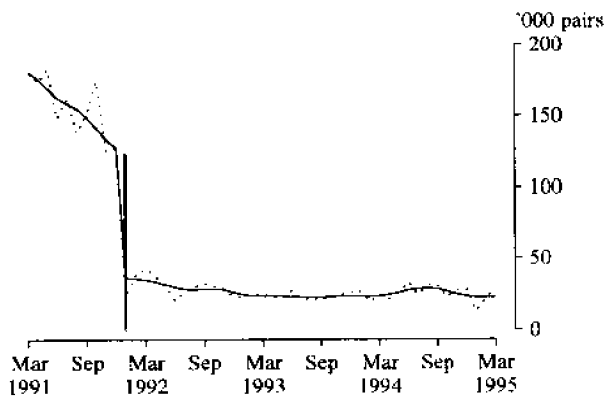
M19. FOOTWEAR



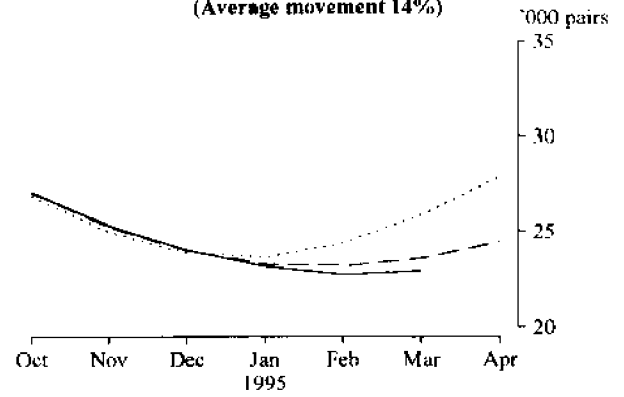
M19. FOOTWEAR
(Average movement 5%)



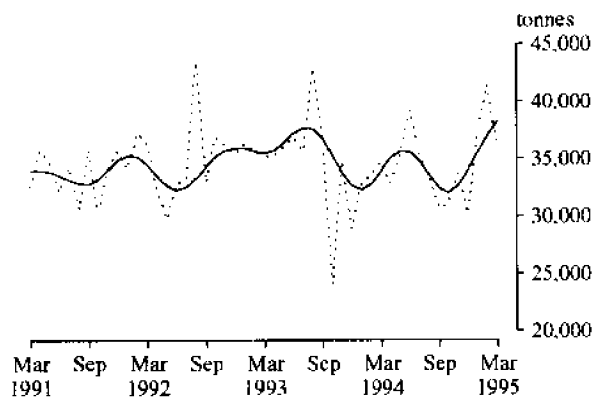
M20. SPORTS FOOTWEAR(c)



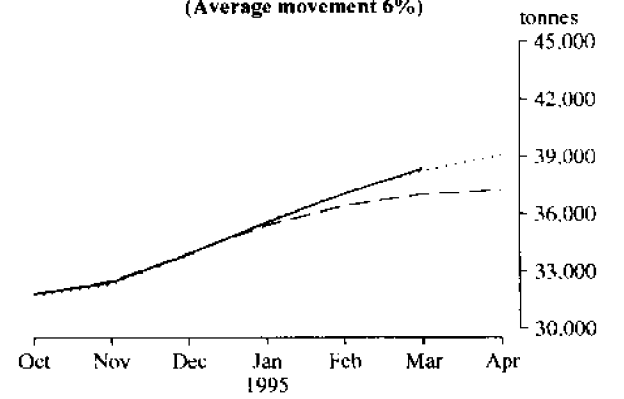
M20. SPORTS FOOTWEAR
(Average movement 14%)



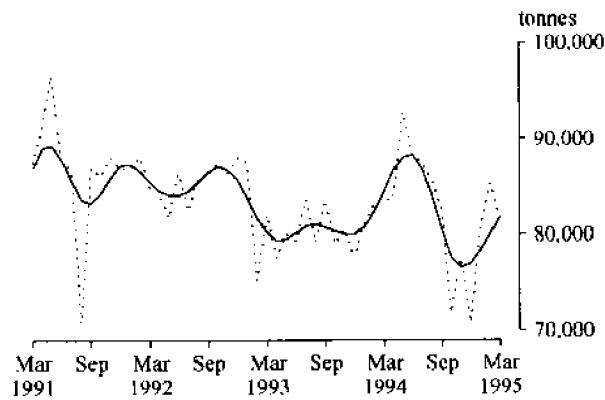
M21. NEWSPRINT



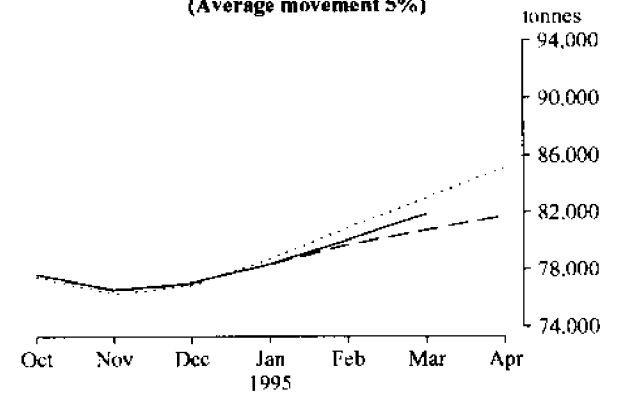
M21. NEWSPRINT
(Average movement 6%)



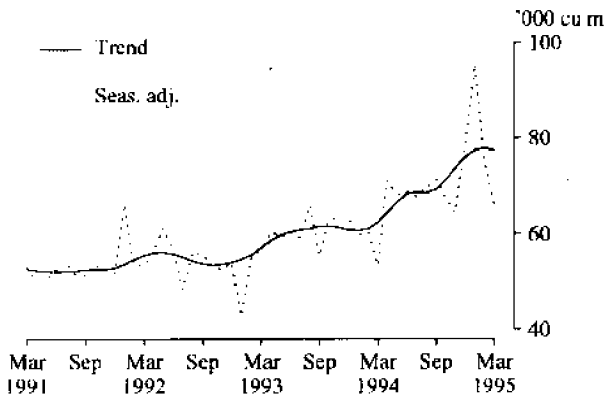
M22. WOOD PULP



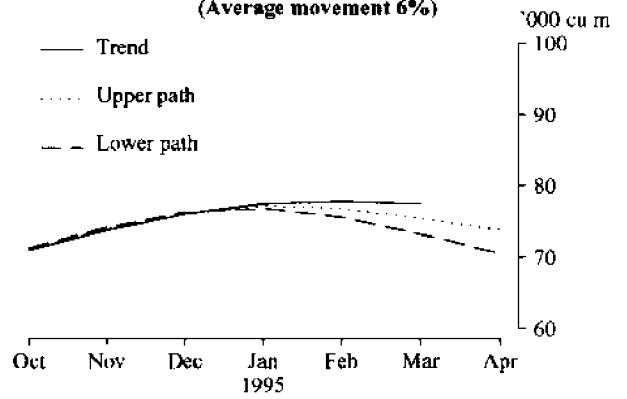
M22. WOOD PULP
(Average movement 5%)



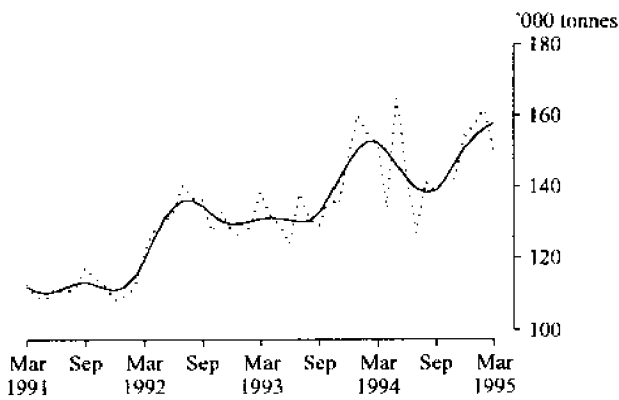
M23. UNLAMINATED PARTICLE BOARD



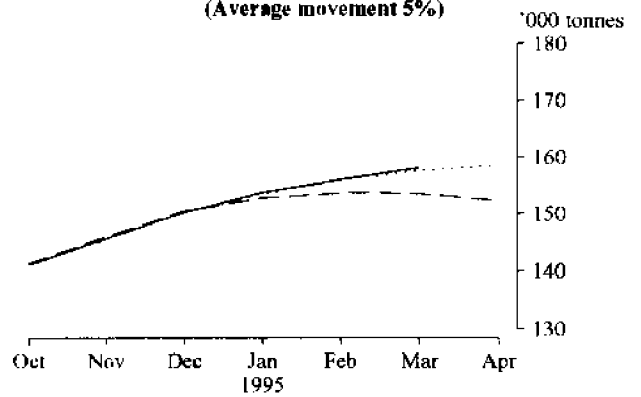
M23. UNLAMINATED PARTICLE BOARD
(Average movement 6%)



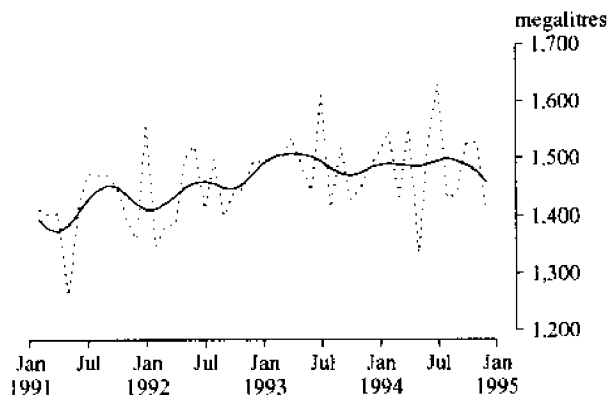
M24. PAPER



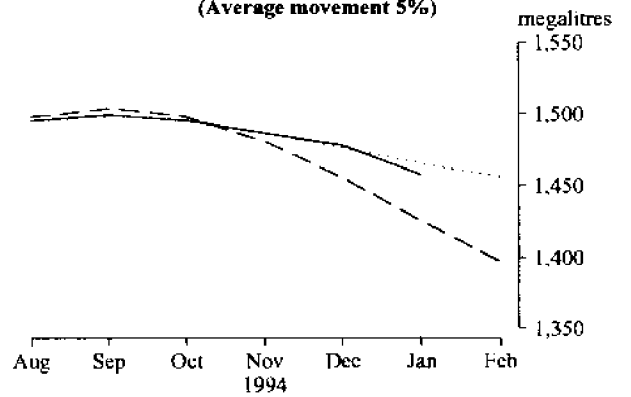
M24. PAPER
(Average movement 5%)



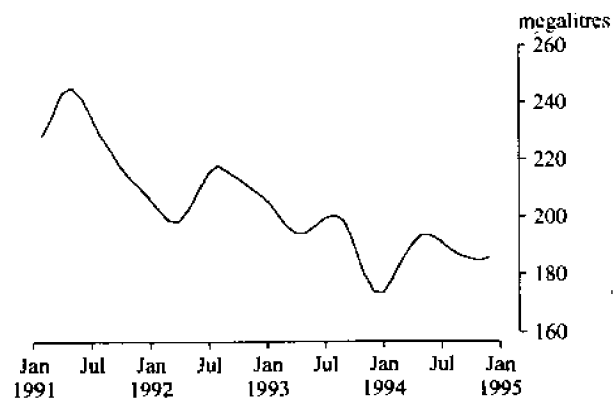
M26. AUTOMOTIVE GASOLINE(d)



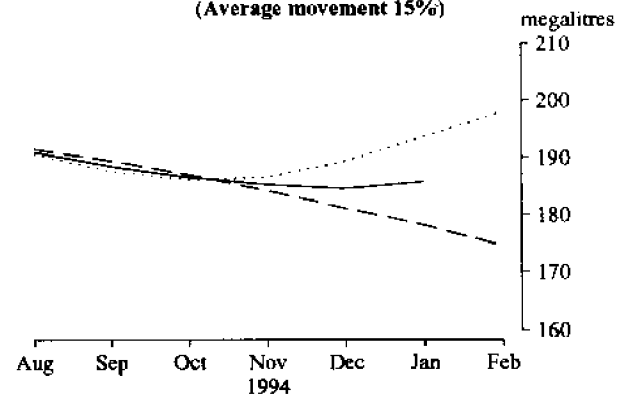
M26. AUTOMOTIVE GASOLINE(d)
(Average movement 5%)



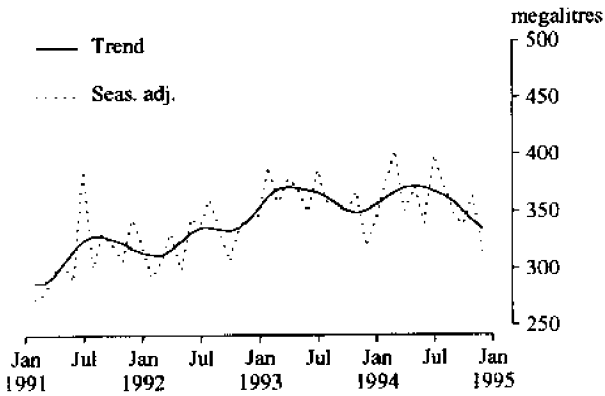
M27. FUEL OIL(d)



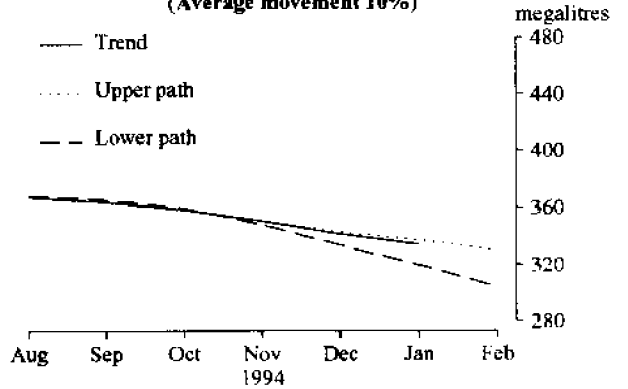
M27. FUEL OIL(d)
(Average movement 15%)



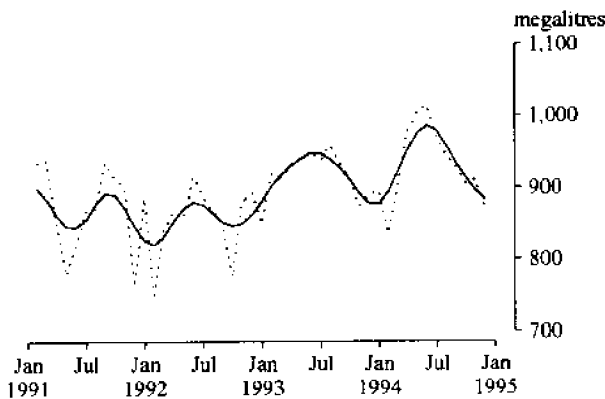
M28. AVIATION TURBINE FUEL(d)



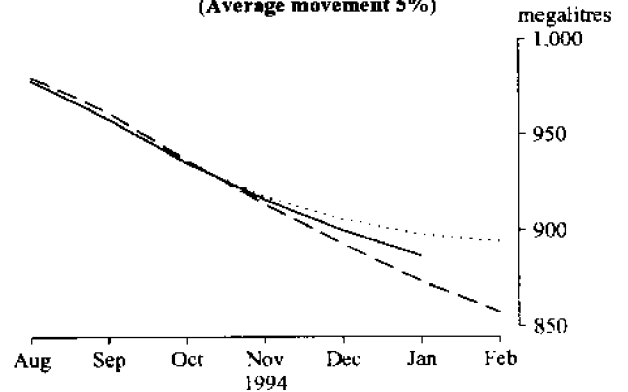
**M28. AVIATION TURBINE FUEL(d)
(Average movement 10%)**



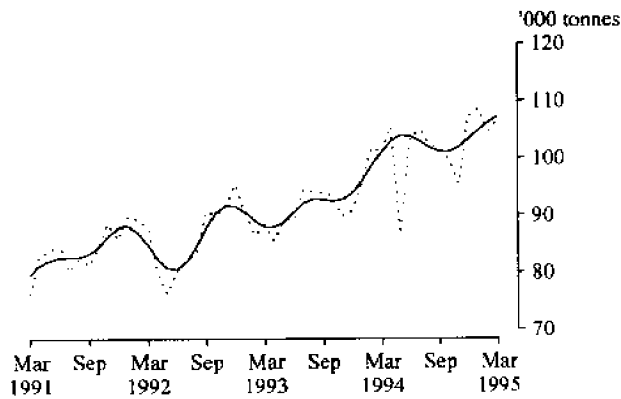
M29. AUTOMOTIVE DIESEL OIL(d)



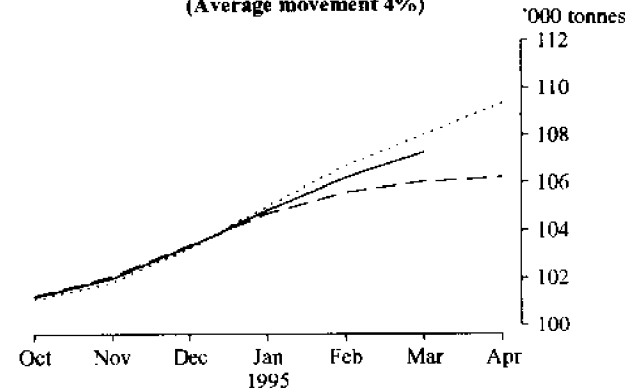
**M29. AUTOMOTIVE DIESEL OIL(d)
(Average movement 5%)**



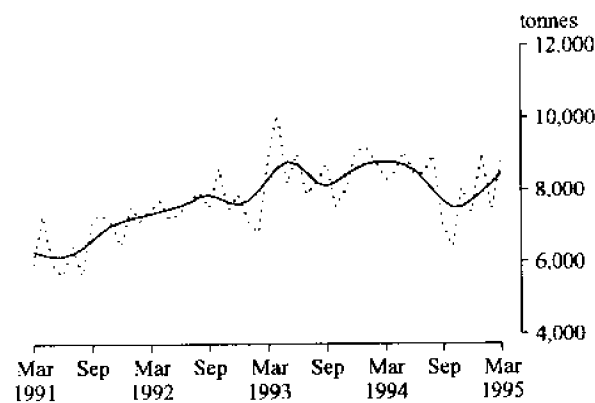
M30. PLASTICS IN PRIMARY FORMS



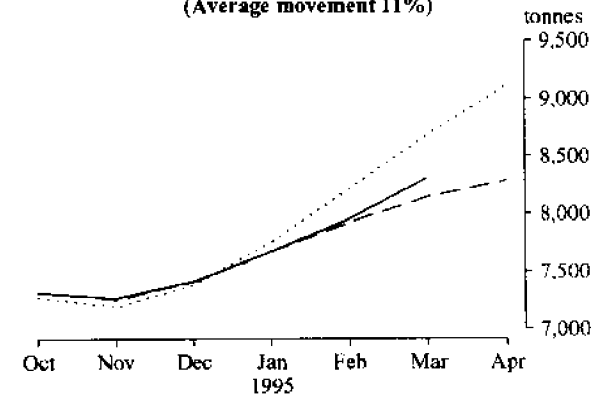
**M30. PLASTICS IN PRIMARY FORMS
(Average movement 4%)**



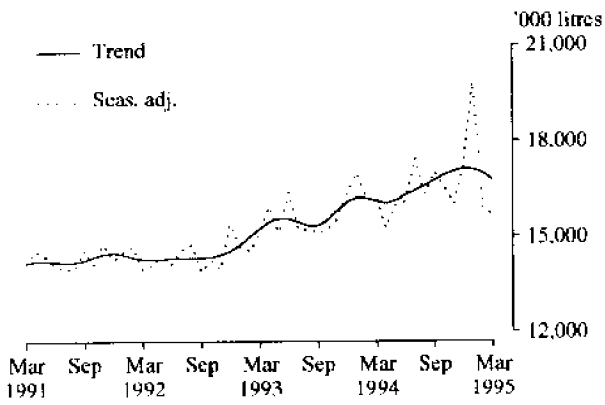
M31. RIGID PVC TUBES, PIPES AND HOSES



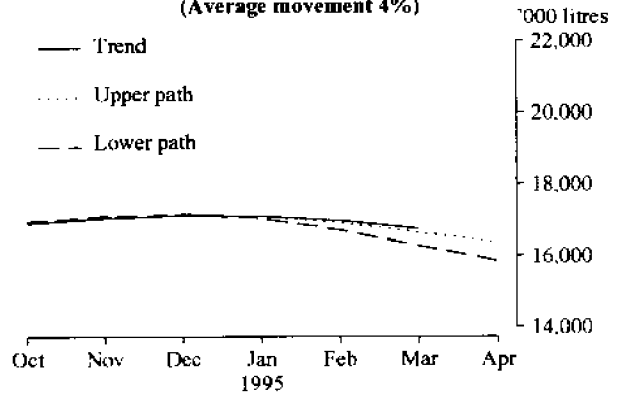
**M31. RIGID PVC TUBES, PIPES AND HOSES
(Average movement 11%)**



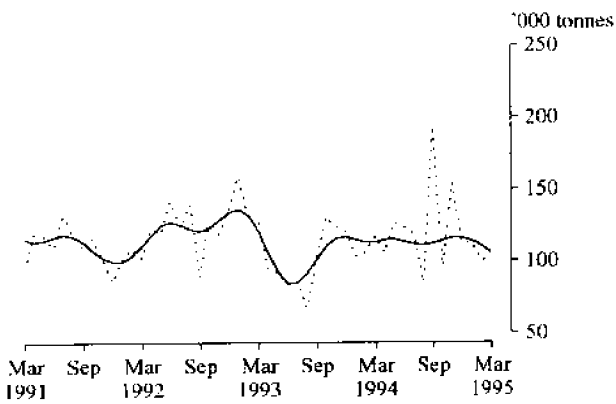
M33. PAINT



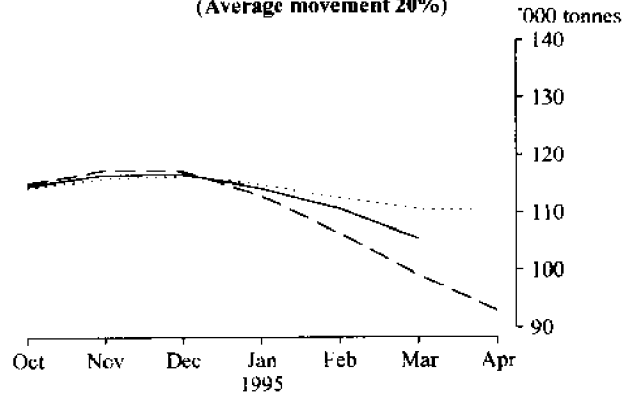
M33. PAINT
(Average movement 4%)



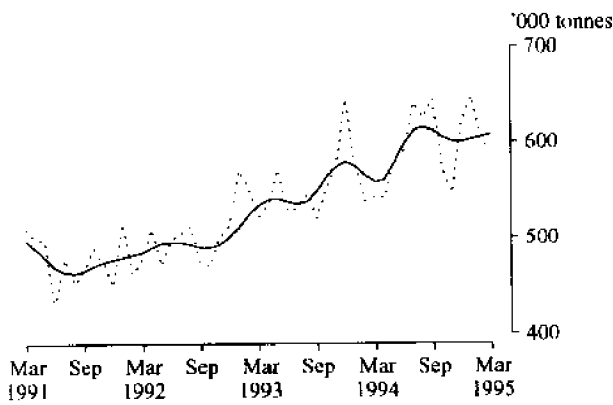
M34. SUPERPHOSPHATES



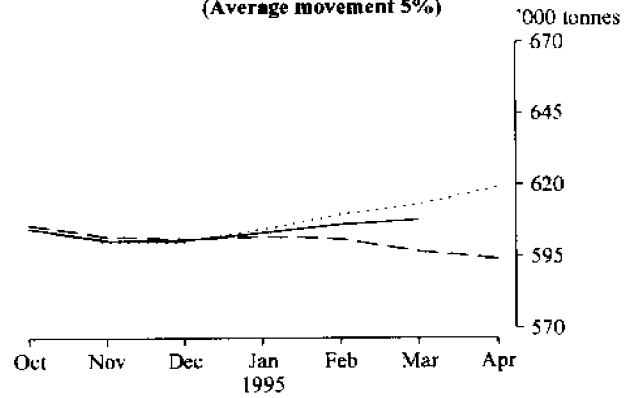
M34. SUPERPHOSPHATES
(Average movement 20%)



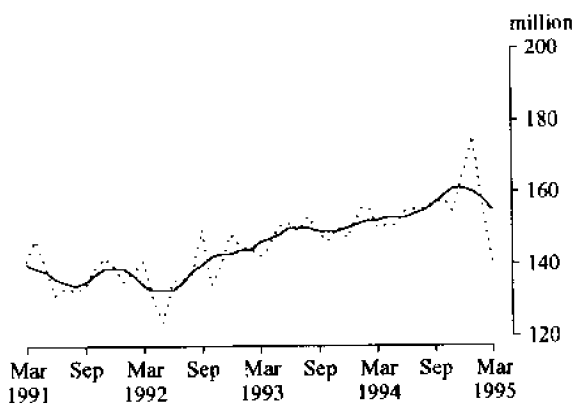
M35. PORTLAND CEMENT



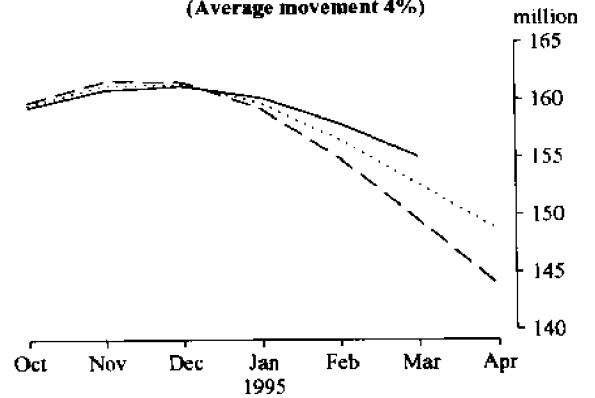
M35. PORTLAND CEMENT
(Average movement 5%)

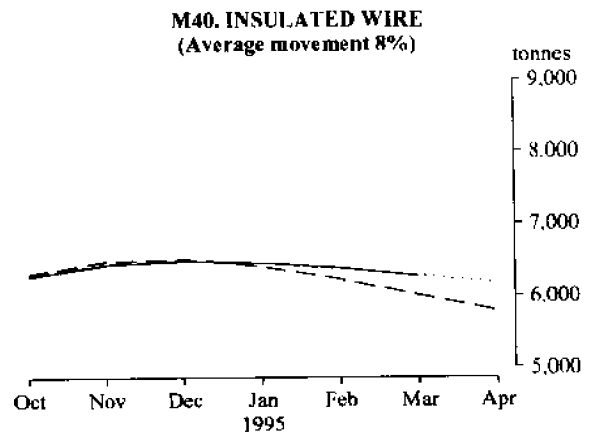
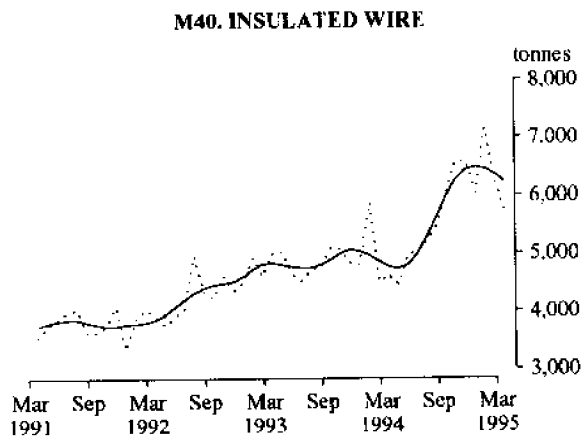
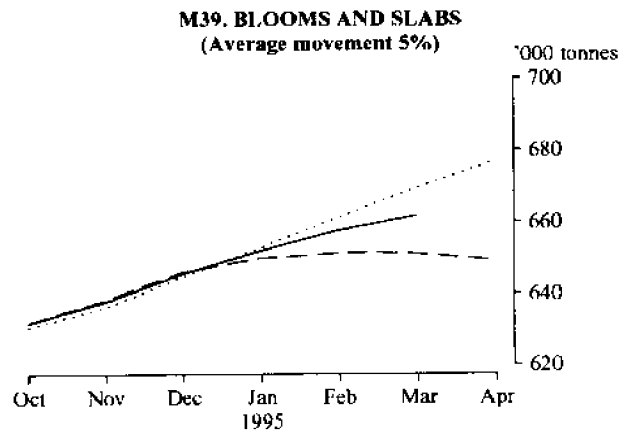
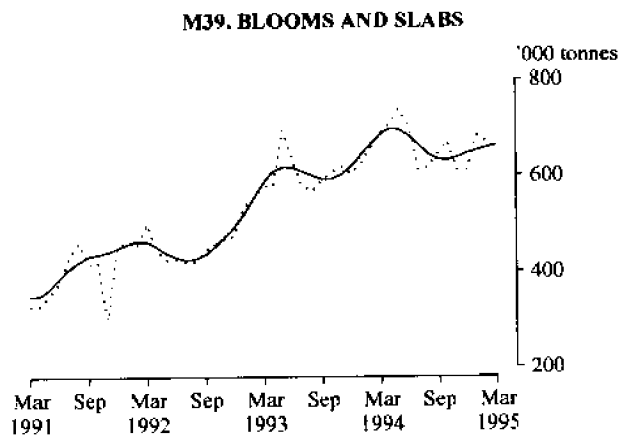
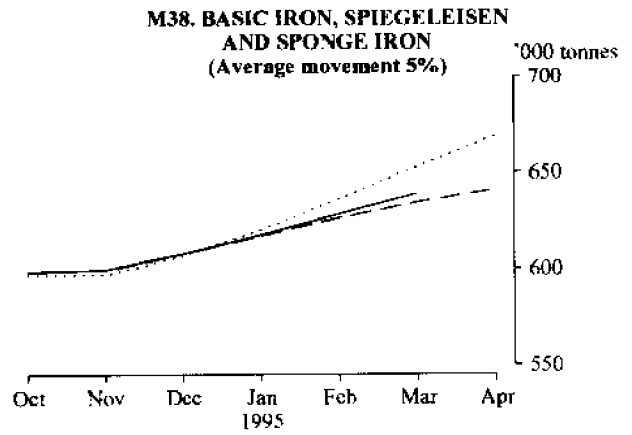
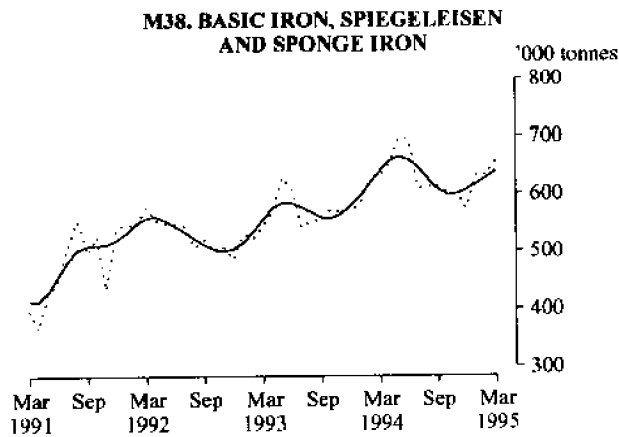
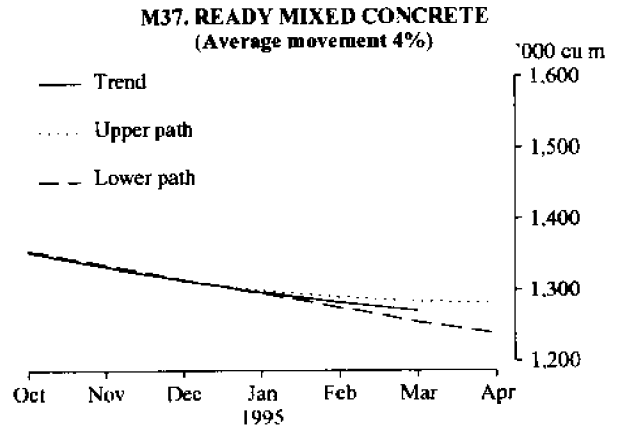
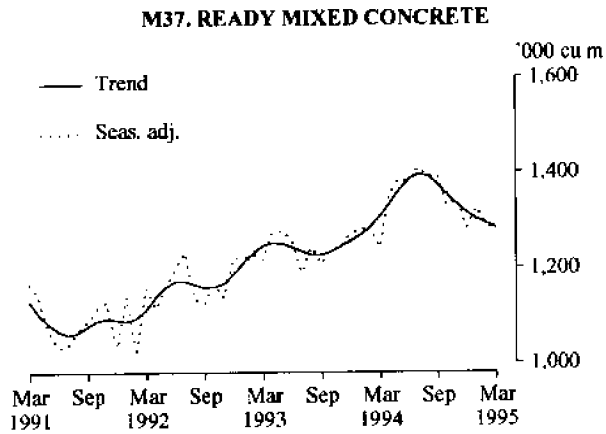


M36. CLAY BRICKS

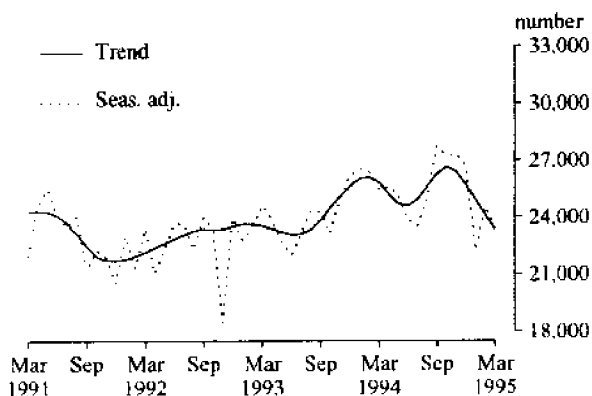


M36. CLAY BRICKS
(Average movement 4%)

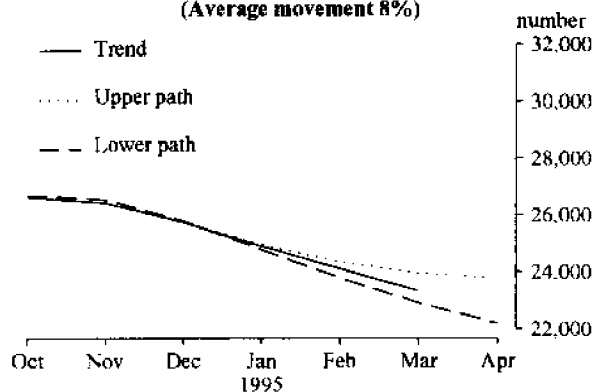




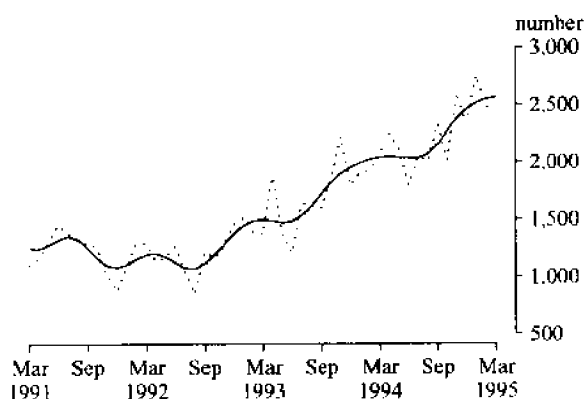
M41. CARS AND STATION WAGONS



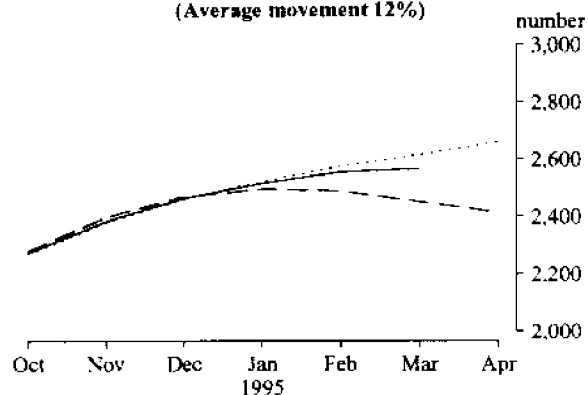
M41. CARS AND STATION WAGONS
(Average movement 8%)



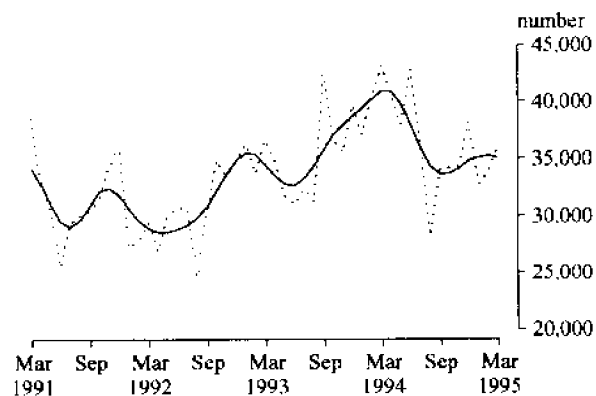
M42. VEHICLES FOR GOODS AND MATERIALS



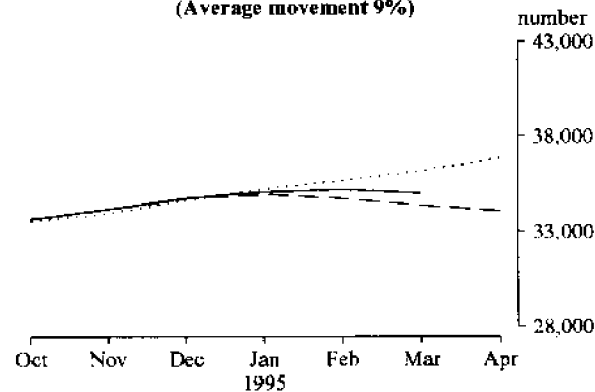
M42. VEHICLES FOR GOODS AND MATERIALS
(Average movement 12%)



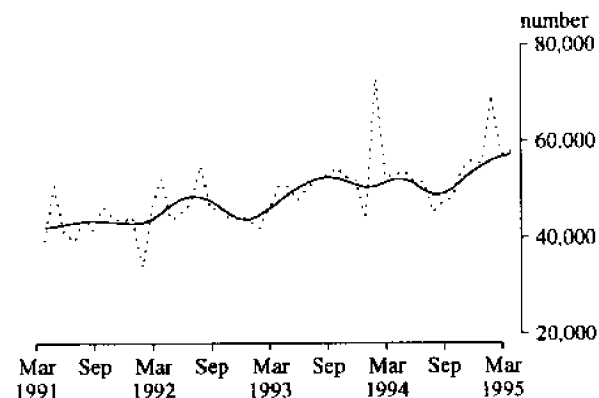
M44. DOMESTIC REFRIGERATORS



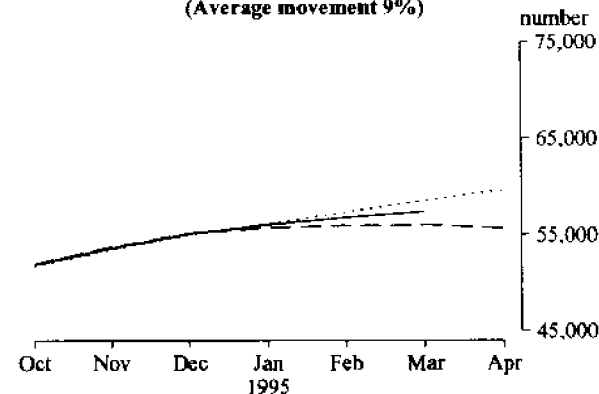
M44. DOMESTIC REFRIGERATORS
(Average movement 9%)



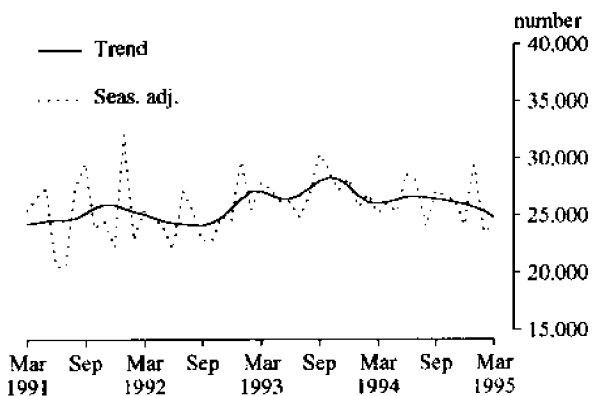
M45. HOT WATER HEATERS



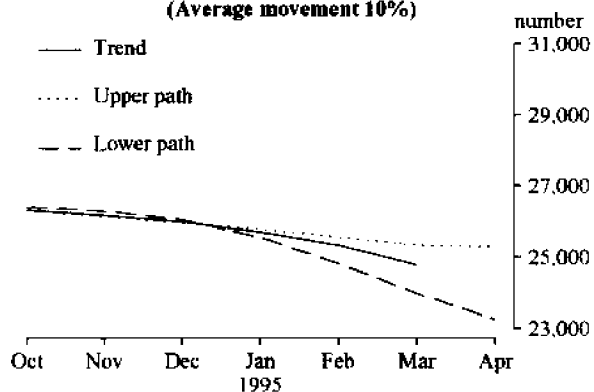
M45. HOT WATER HEATERS
(Average movement 9%)



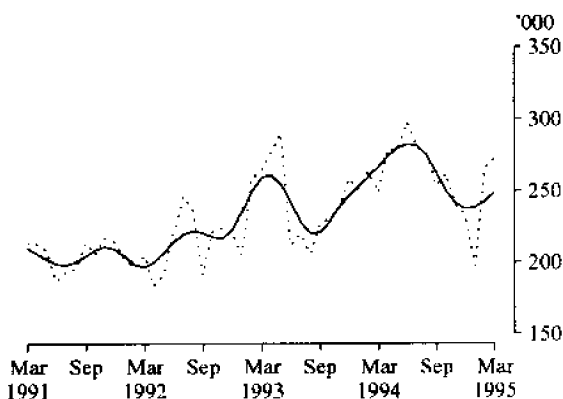
M46. CLOTHES WASHING MACHINES, DOMESTIC



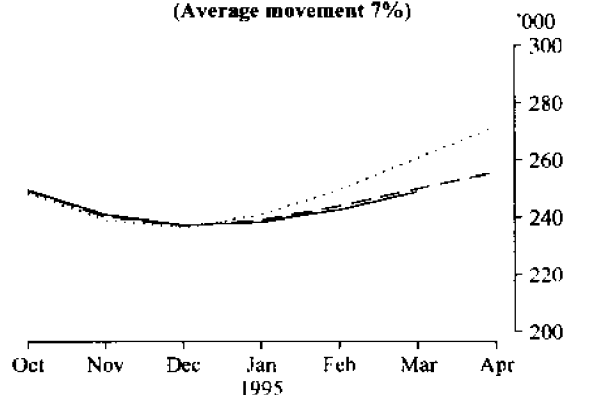
M46. CLOTHES WASHING MACHINES, DOMESTIC
(Average movement 10%)



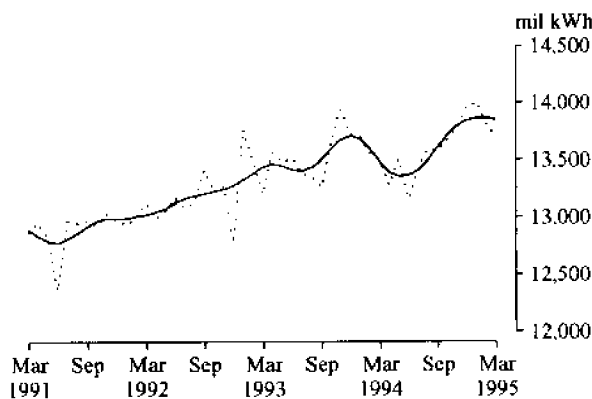
M47. ELECTRIC MOTORS



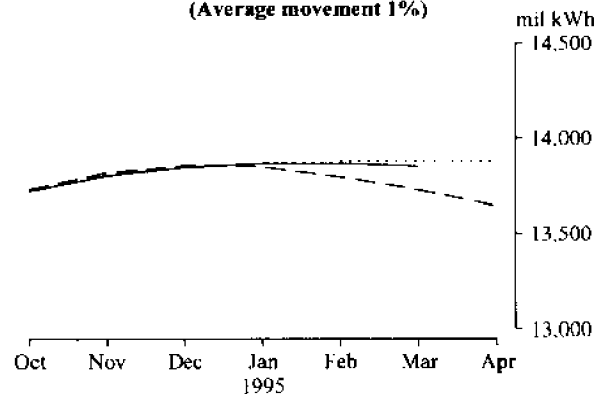
M47. ELECTRIC MOTORS
(Average movement 7%)



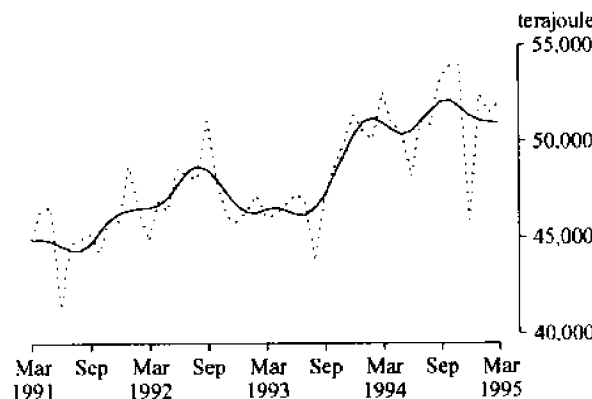
M48. ELECTRICITY



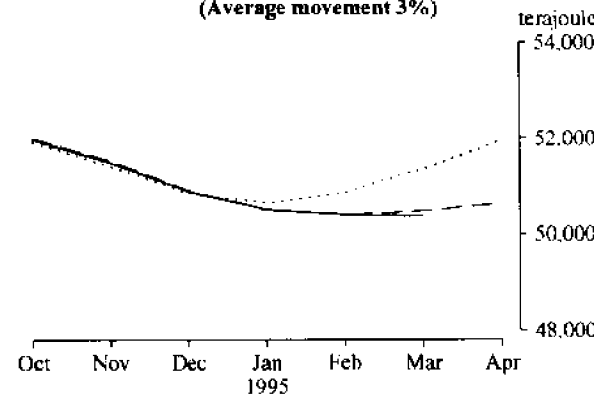
M48. ELECTRICITY
(Average movement 1%)



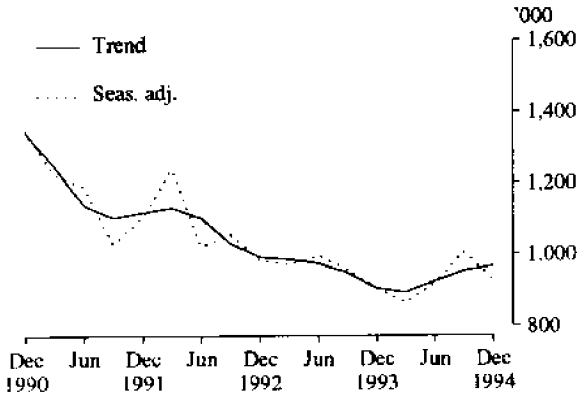
M49. GAS



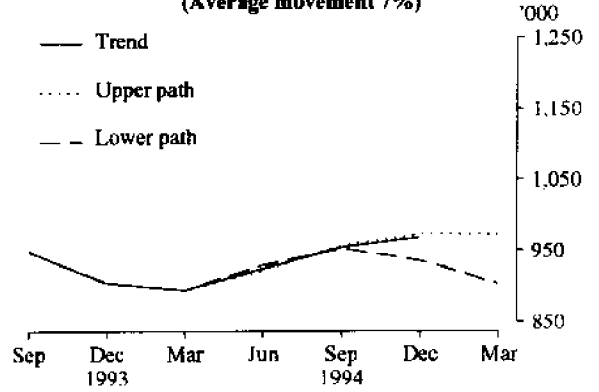
M49. GAS
(Average movement 3%)



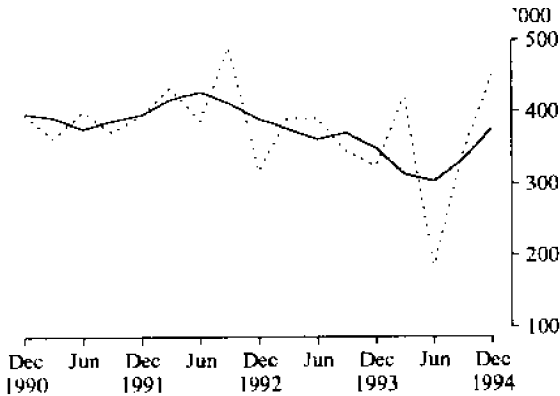
Q1. MEN'S AND BOYS' TROUSERS



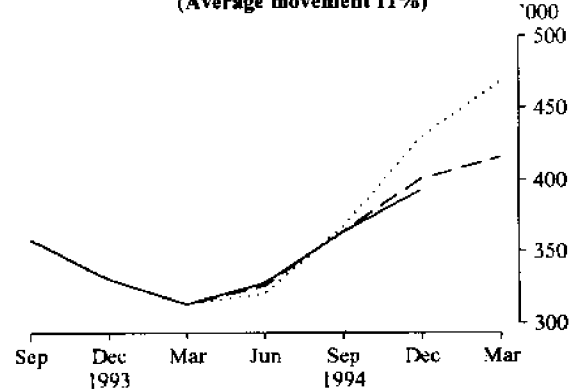
Q1. MEN'S AND BOYS' TROUSERS
(Average movement 7%)



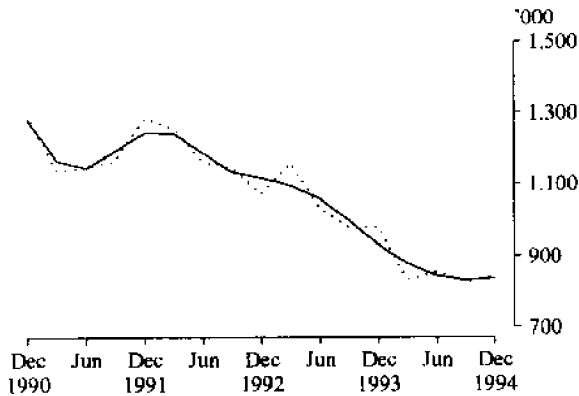
Q2. WOMEN'S AND GIRLS' LONG TROUSERS



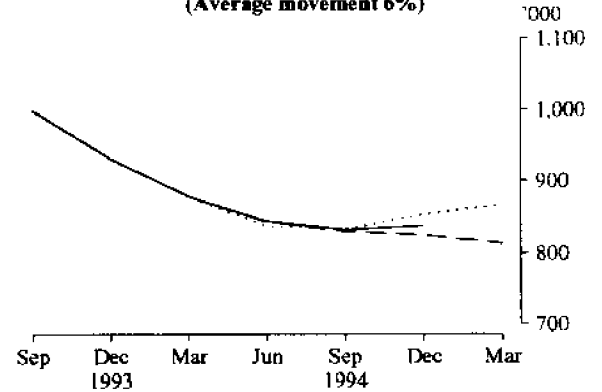
Q2. WOMEN'S AND GIRLS' LONG TROUSERS
(Average movement 11%)



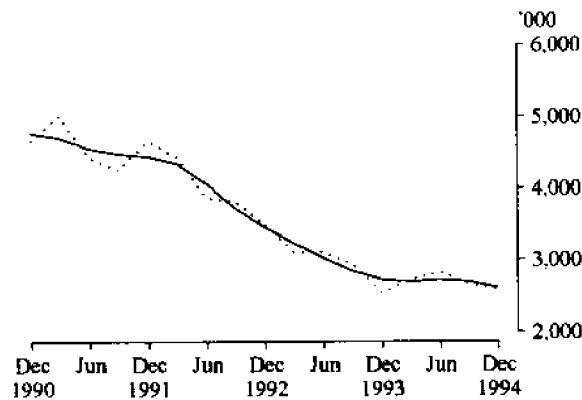
Q3. JEANS



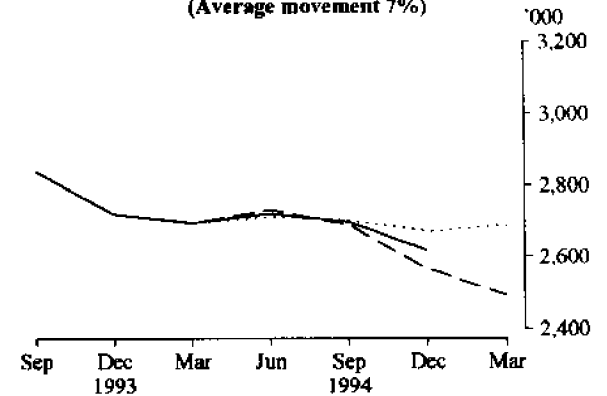
Q3. JEANS
(Average movement 6%)

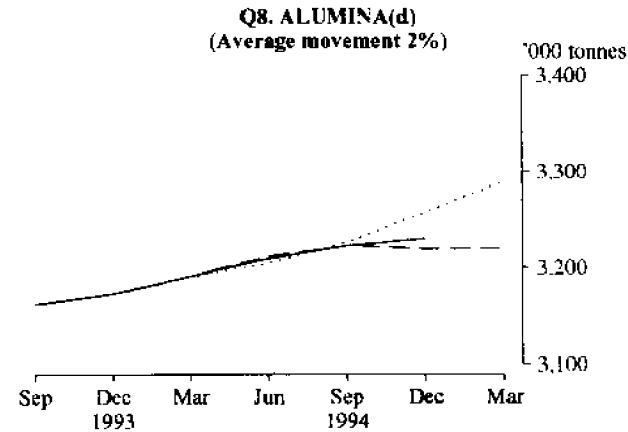
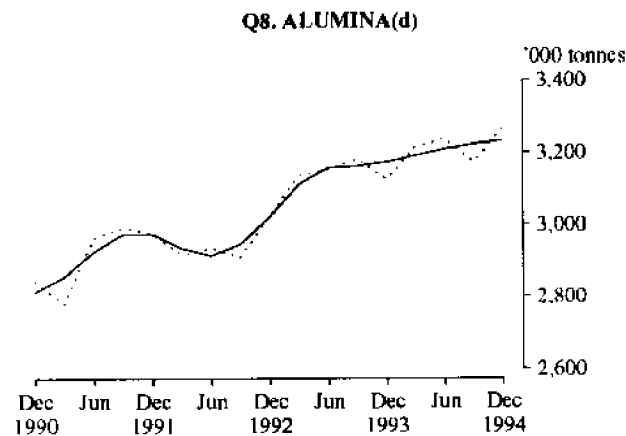
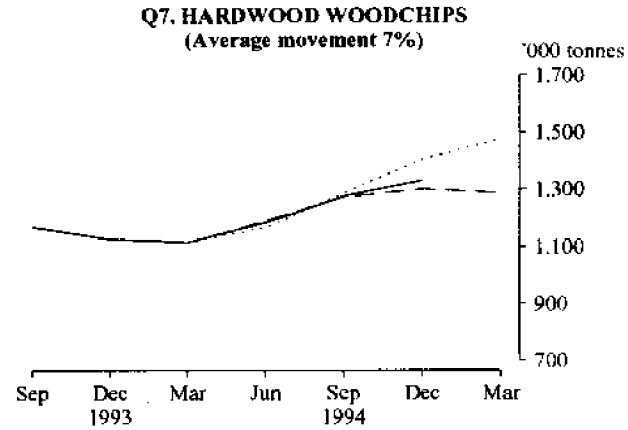
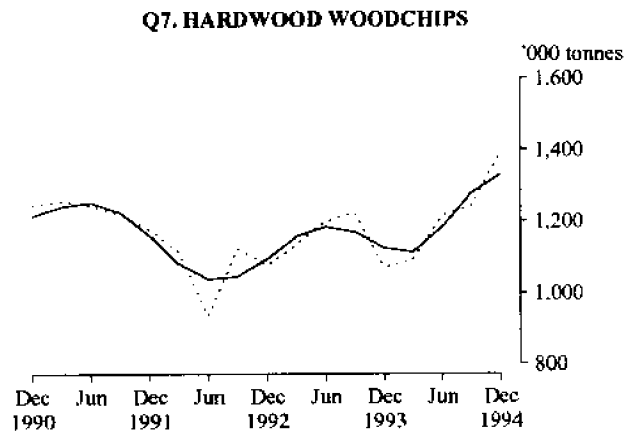
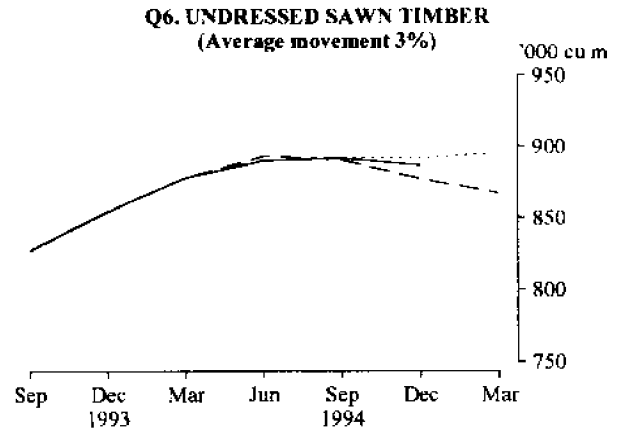
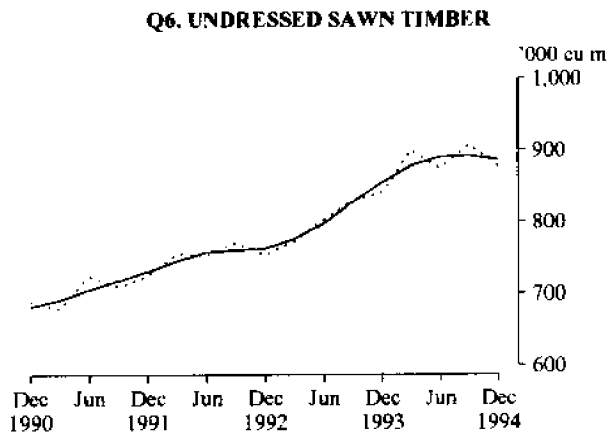
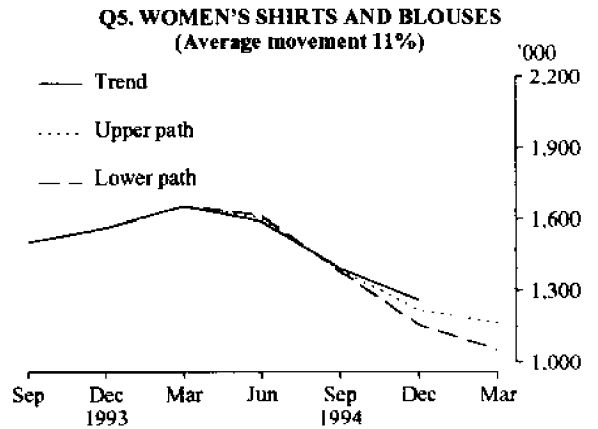
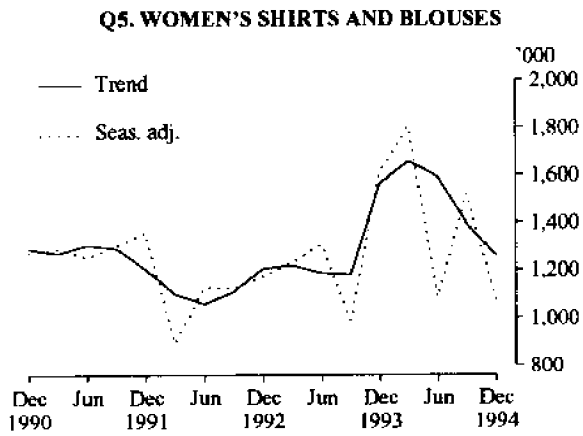


Q4. MEN'S SHIRTS

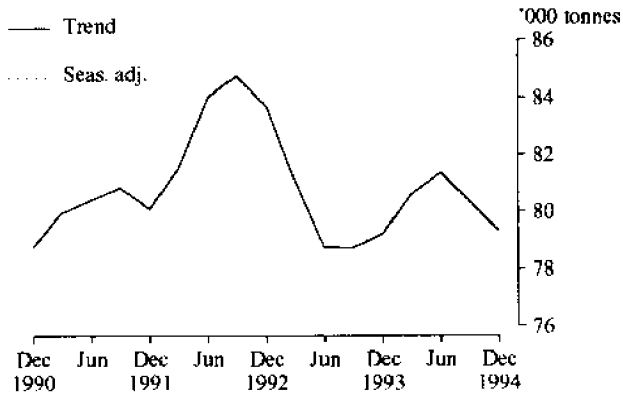


Q4. MEN'S SHIRTS
(Average movement 7%)

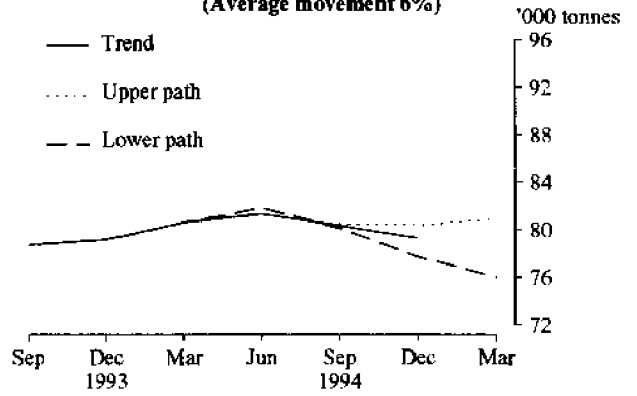




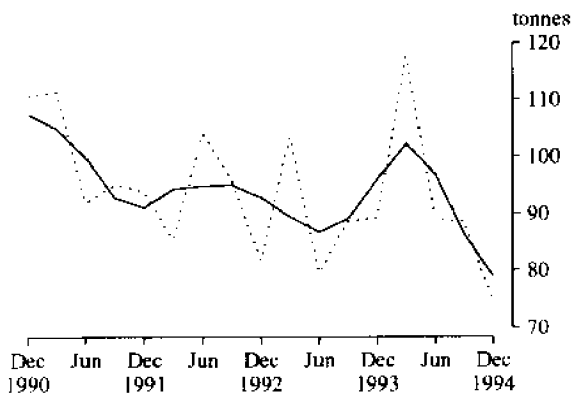
Q9. ZINC(d)



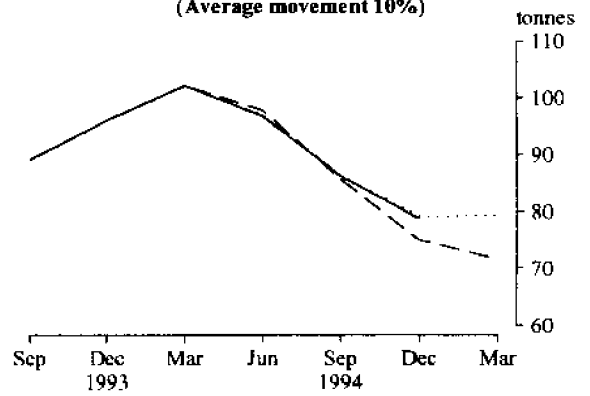
Q9. ZINC(d)
(Average movement 6%)



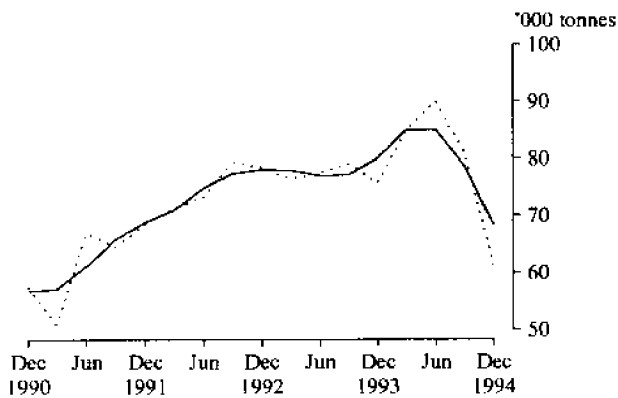
Q10. SILVER(d)



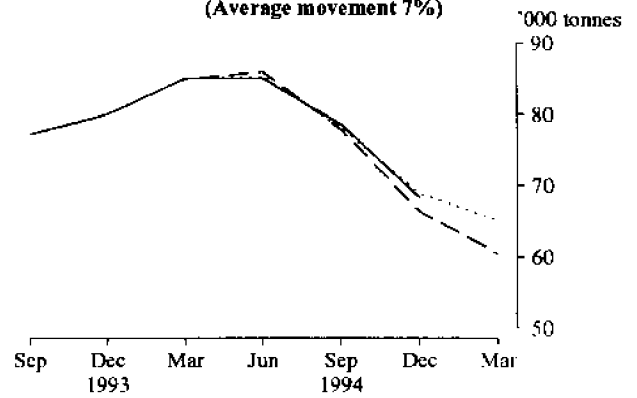
Q10. SILVER(d)
(Average movement 10%)



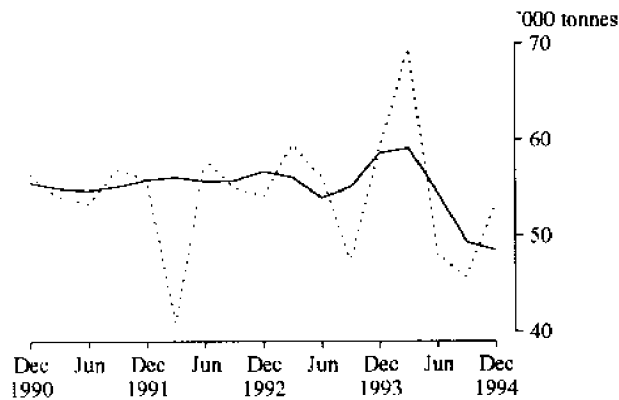
Q11. COPPER(d)



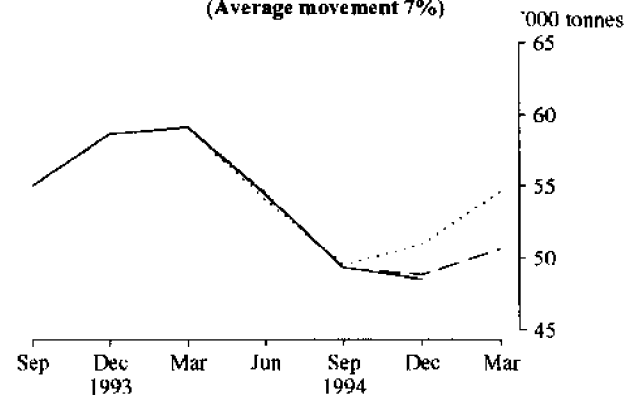
Q11. COPPER(d)
(Average movement 7%)



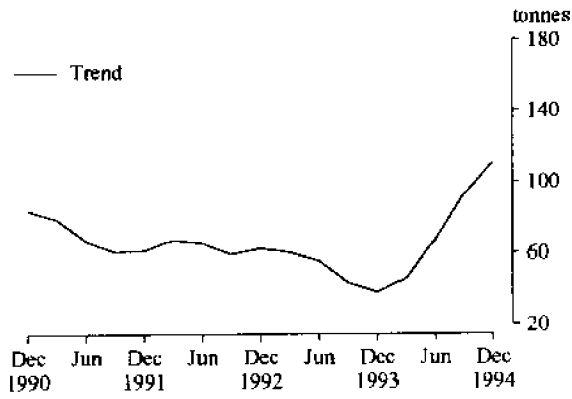
Q12. LEAD(d)



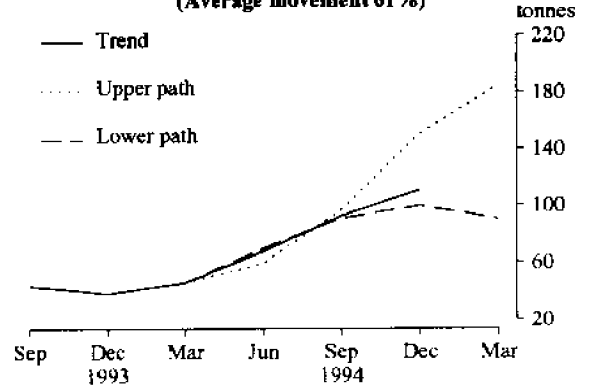
Q12. LEAD(d)
(Average movement 7%)



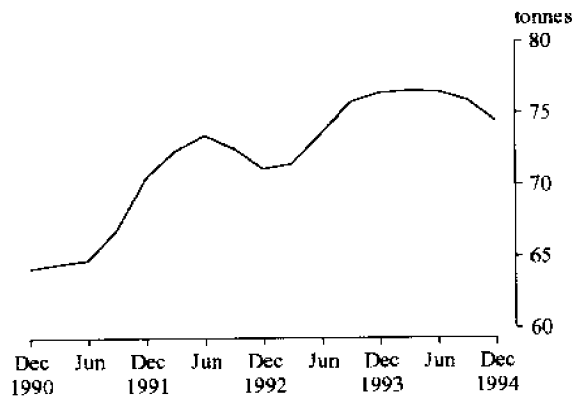
Q13. TIN(d)



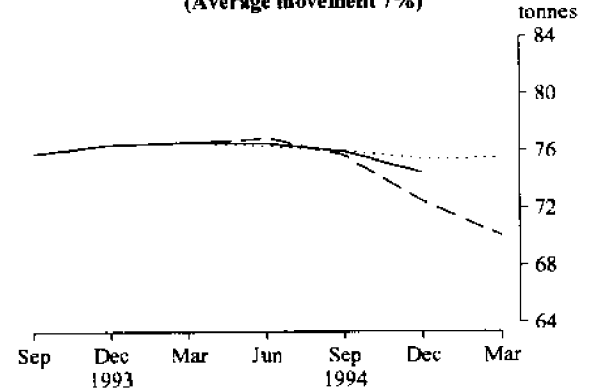
Q13. TIN(d)
(Average movement 61%)



Q14. GOLD(d)



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



PRODUCTION STATISTICS, AUSTRALIA, MARCH 1995.

No. Item	Series	Unit	1994						1995			Percentage changes between latest month shown and-	
			July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	prev. month	same month prev. year
M1. Red meat	Orig.	'000 tonnes	218	235	255	240	249	220	r 188	204	n.y.a.	8.5	-12.7
	S. adj.	"	229	226	244	238	220	241	r 225	212	n.y.a.	-5.8	-12.3
	Trend r	"	233	233	233	233	232	229	226	222	n.y.a.	-1.8	-6.7
M2. Chicken meat	Orig.	tonnes	41,225	36,353	40,682	38,811	35,331	41,737	r 35,136	37,803	n.y.a.	7.6	3.3
	S. adj.	"	39,473	38,888	42,660	37,666	35,608	41,986	r 34,213	39,777	n.y.a.	16.2	-6.2
	Trend r	"	40,159	39,807	39,366	38,890	38,438	38,086	37,869	37,740	n.y.a.	-0.3	-4.6
M3. Cheese(a)	Orig.	"	9,558	13,769	21,575	26,216	24,516	23,441	n.y.a.	n.y.a.	n.y.a.	-4.4	-6.9
	S. adj.	"	16,086	16,570	16,707	17,463	17,107	17,851	n.y.a.	n.y.a.	n.y.a.	4.3	-4.9
	Trend r	"	18,739	17,462	16,828	16,721	16,796	17,405	n.y.a.	n.y.a.	n.y.a.	3.6	-8.6
M4. Butter(a)	Orig.	"	4,537	7,441	13,585	18,343	19,901	18,544	n.y.a.	n.y.a.	n.y.a.	-6.8	3.2
	S. adj.	"	10,168	11,106	11,597	12,373	12,900	13,196	n.y.a.	n.y.a.	n.y.a.	2.3	4.3
	Trend r	"	11,297	11,398	11,711	12,124	12,549	12,937	n.y.a.	n.y.a.	n.y.a.	3.2	5.4
M5. Flour of wheat or of meslin	Orig.	'000 tonnes	111	122	123	113	117	106	95	103	115	10.8	-7.9
	S. adj.	"	113	116	118	114	112	114	108	108	108	0.7	-9.7
	Trend r	"	116	116	116	115	113	112	110	109	107	-1.1	-7.5
M6. Prepared food from cereals	Orig.	tonnes	5,454	8,395	8,515	8,531	7,625	8,313	7,726	7,876	10,101	28.3	14.6
	S. adj.	"	5,540	7,914	8,440	8,189	7,220	9,101	9,792	7,904	9,073	14.8	8.0
	Trend r	"	8,177	8,172	8,179	8,243	8,363	8,526	8,695	8,843	8,926	0.9	6.5
M7. Biscuits	Orig.	"	11,187	11,573	14,735	11,627	r 12,580	11,146	5,920	r 10,689	12,174	13.9	5.3
	S. adj.	"	10,837	10,460	12,317	11,535	r 11,621	13,081	9,159	r 11,048	10,440	-5.5	-7.0
	Trend r	"	11,014	11,237	11,538	11,765	11,820	11,707	11,472	11,187	10,831	-3.2	-1.9
M8. Chocolate based confectionery	Orig. r	"	8,858	10,748	10,552	9,827	10,402	9,503	5,853	9,334	9,774	4.7	2.2
	S. adj. r	"	8,730	8,919	10,044	9,489	9,378	10,169	10,739	9,286	8,311	-10.5	-1.2
	Trend r	"	8,860	9,129	9,452	9,709	9,849	9,850	9,731	9,531	9,255	-2.9	7.4
M9. Other confectionery	Orig.	"	6,014	7,296	7,284	6,595	7,028	5,771	3,292	r 5,475	5,895	7.7	1.2
	S. adj.	"	5,657	5,975	6,442	6,327	5,867	6,137	6,208	r 5,860	5,482	-6.5	0.1
	Trend r	"	5,915	6,039	6,135	6,179	6,162	6,088	5,983	5,865	5,738	-2.2	-1.6
M10. Malt	Orig.	"	45,854	46,670	46,119	46,110	50,612	48,245	46,155	47,882	41,548	-13.2	-8.9
	S. adj.	"	47,373	45,796	47,244	47,552	47,088	49,486	48,861	47,038	40,485	-13.9	-9.0
	Trend r	"	46,056	46,477	47,172	47,798	48,042	47,777	47,105	46,149	44,968	-2.6	-1.4
M11. Beer	Orig.	mil litres	127	143	143	160	190	182	r 138	135	151	11.8	-7.9
	S. adj.	"	147	146	155	147	155	150	r 140	148	140	5.3	-7.2
	Trend r	"	146	148	150	151	150	148	146	144	142	1.5	-2.4
M12. Tobacco and cigarettes (b)	Orig.	tonnes	2,419	2,395	2,186	2,049	2,200	1,836	771	2,088	1,855	-11.2	-17.2
	S. adj.	"	2,238	2,124	2,188	2,309	1,957	2,057	1,385	1,919	1,547	-19.4	-18.5
	Trend r	"	2,115	2,182	2,200	2,156	2,070	1,971	1,871	1,776	1,686	-5.1	-7.9
M13. Man-made fibre woven fabric	Orig.	'000 sq m	16,825	17,362	18,601	16,164	r 15,423	13,615	r 10,652	r 15,921	17,344	8.9	7.9
	S. adj.	"	16,035	16,437	17,350	15,745	r 14,666	14,739	r 18,167	r 15,428	15,507	0.5	5.2
	Trend r	"	16,075	16,198	16,150	16,013	15,887	15,826	15,830	15,848	15,843	0.0	3.3
M14. Cotton woven fabric	Orig.	"	4,157	4,534	4,958	4,013	4,143	3,963	2,089	4,383	5,309	21.1	10.7
	S. adj.	"	3,497	4,293	4,360	3,692	4,247	4,520	5,444	4,335	4,667	7.7	4.5
	Trend r	"	4,041	4,026	4,081	4,201	4,359	4,522	4,650	4,734	4,801	1.4	14.4

For footnotes see end of tables.

PRODUCTION STATISTICS, AUSTRALIA, MARCH 1995.

No. Item	Series	Unit	1994									1995			Percentage changes between latest month shown and-	
			July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	prev. month	same month prev. year			
M15. Cotton yarn	Orig.	tonnes	2,736	2,818	3,000	2,571	2,971	2,296	1,410	2,824	3,495	23.8	12.2			
	S. adj.	"	2,568	2,520	2,648	2,426	2,891	2,664	2,475	2,999	3,129	4.3	7.8			
	Trend r	"	2,581	2,577	2,580	2,599	2,638	2,703	2,782	2,868	2,950	2.9	7.6			
M16. Wool yarn	Orig.	"	2,011	2,197	2,162	2,264	r 2,240	r 1,651	r 1,364	r 1,930	2,033	5.3	7.3			
	S. adj.	"	1,948	1,893	1,975	2,164	r 1,867	r 2,059	r 2,165	r 1,957	1,952	-0.2	11.6			
	Trend r	"	1,971	1,965	1,975	2,002	2,028	2,035	2,031	2,021	2,003	-0.9	2.5			
M17. Wool woven fabric	Orig.	'000 sq m	636	885	665	768	775	566	410	728	860	18.1	3.4			
	S. adj.	"	634	774	639	771	623	665	668	669	761	13.8	5.9			
	Trend r	"	687	687	687	684	680	677	679	687	703	2.4	2.6			
M18. Textile floor coverings	Orig.	"	4,076	4,244	4,311	4,596	4,873	3,580	2,618	r 4,286	4,198	-2.1	0.6			
	S. adj.	"	4,041	3,755	3,895	4,287	4,223	3,857	4,769	r 4,402	3,986	9.5	1.9			
	Trend r	"	3,967	3,965	3,999	4,078	4,175	4,252	4,297	4,317	4,302	0.3	1.3			
M19. Footwear excluding sports footwear	Orig.	'000 pairs	1,387	1,548	1,494	1,454	1,466	r 1,119	r 677	1,257	1,409	12.1	-15.7			
	S. adj.	"	1,382	1,398	1,375	1,409	1,360	r 1,307	r 1,336	1,229	1,166	-5.1	-16.2			
	Trend r	"	1,407	1,408	1,400	1,381	1,354	1,324	1,288	1,250	1,215	-2.8	15.0			
M20. Sports footwear(c)	Orig.	"	27	38	34	21	31	21	6	26	33	28.4	22.9			
	S. adj.	"	25	31	31	23	28	29	13	22	29	31.2	22.9			
	Trend r	"	29	29	29	27	25	24	23	23	23	0.8	3.0			
M21. Newsprint	Orig.	tonnes	33,943	32,298	30,267	r 30,941	34,619	31,785	37,800	39,472	37,384	-5.3	4.2			
	S. adj.	"	35,247	33,302	30,580	r 31,123	33,696	30,121	37,223	41,451	36,123	-12.9	3.9			
	Trend r	"	34,800	33,543	32,410	32,016	32,639	34,045	35,607	37,044	38,325	3.5	12.8			
M22. Wood pulp	Orig.	"	85,115	84,692	84,484	71,549	78,282	75,920	r 81,003	80,093	84,081	5.0	-0.2			
	S. adj.	"	87,646	85,638	82,572	71,775	77,507	70,730	r 80,780	85,311	81,642	4.3	-2.5			
	Trend r	"	86,857	83,901	80,389	77,649	76,595	77,057	78,386	80,038	81,859	2.3	-3.2			
M23. Unlaminated particle board	Orig.	'000 cu m	66	78	79	73	78	61	53	71	81	14.0	21.0			
	S. adj.	"	68	69	71	68	64	78	96	75	66	12.2	24.1			
	Trend r	"	69	68	69	71	74	76	77	78	77	0.6	24.3			
M24. Paper	Orig.	'000 tonnes	141	144	151	r 148	r 147	145	140	145	154	6.6	6.7			
	S. adj.	"	127	141	138	r 142	r 142	154	157	162	150	-7.2	-1.2			
	Trend r	"	139	138	139	142	147	151	154	156	158	1.1	3.6			
M25. Paperboard containers	Orig. r	tonnes	86,561	96,695	94,838	94,702	106,492	85,124	78,035	82,938	91,610	10.5	-1.0			
	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	"	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.			
M26. Automotive gasoline(d)	Orig.	megalitres	1,589	1,620	1,434	1,432	1,416	r 1,561	1,519	n.y.a.	n.y.a.	2.7	5.7			
	S. adj.	"	1,526	1,630	1,430	1,439	1,527	r 1,526	1,404	n.y.a.	n.y.a.	-8.0	-5.6			
	Trend r	"	1,489	1,495	1,499	1,495	1,487	1,478	1,457	n.y.a.	n.y.a.	-1.4	1.7			
M27. Fuel oil(d)	Orig.	"	196	187	216	181	152	r 194	228	n.y.a.	n.y.a.	17.5	16.9			
	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	"	193	191	188	187	185	185	186	n.y.a.	n.y.a.	0.5	6.9			
M28. Aviation turbine fuel(d)	Orig.	"	334	378	373	375	367	r 383	368	n.y.a.	n.y.a.	-3.9	-3.7			
	S. adj.	"	339	399	375	347	338	r 364	313	n.y.a.	n.y.a.	14.0	-1.9			
	Trend r	"	371	367	364	358	350	342	334	n.y.a.	n.y.a.	2.3	-4.8			

For footnotes see end of tables.

PRODUCTION STATISTICS, AUSTRALIA, MARCH 1995.

No. Item	Series	Unit	1994									1995			Percentage changes between latest month shown and-	
			July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	prev. month	same month prev. year			
M29. Automotive diesel oil(d)	Orig.	megalitres	998	964	919	951	914	r 970	940	n.y.a.	n.y.a.	-3.1	-0.1			
	S. adj.	"	1,014	971	945	929	906	r 912	872	n.y.a.	n.y.a.	-4.4	-2.0			
	Trend r	"	986	978	958	934	914	897	883	n.y.a.	n.y.a.	-1.6	0.5			
M30. Plastics in primary forms	Orig.	'000 tonnes	105	114	104	109	102	95	96	99	112	13.4	5.7			
	S. adj.	"	105	102	102	100	95	107	109	105	107	2.0	5.8			
	Trend r	"	103	102	101	101	102	103	105	106	107	1.0	6.0			
M31. Rigid PVC tubes pipes and hoses	Orig.	tonnes	9,784	9,399	6,774	6,737	8,988	7,276	4,809	8,233	9,088	10.4	3.1			
	S. adj. r	"	8,459	8,982	6,993	6,435	8,067	7,350	8,984	7,443	8,780	18.0	5.8			
	Trend r	"	8,304	7,986	7,679	7,510	7,544	7,723	7,962	8,191	8,478	3.5	3.4			
M32. Polyethylene bottles up to two litres	Orig.	million	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.y.a.			
	S. adj.	"	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.y.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.y.a.			
M33. Paint	Orig. r	'000 litres	17,867	16,494	18,668	17,837	17,384	17,341	14,657	15,655	17,867	14.1	7.7			
	S. adj. r	"	17,454	16,318	17,023	16,558	16,002	17,207	19,831	15,867	15,648	-1.4	-3.5			
	Trend r	"	16,448	16,592	16,761	16,926	17,056	17,133	17,115	16,994	16,758	-1.4	4.0			
M34. Superphosphates	Orig.	'000 tonnes	69	47	99	67	180	140	r 139	r 140	160	14.2	-15.4			
	S. adj. r	"	119	85	193	96	154	113	113	100	104	3.8	-11.8			
	Trend r	"	112	111	112	115	117	117	114	111	106	-4.7	7.0			
M35. Portland cement	Orig.	"	659	661	642	614	615	604	455	r 552	613	11.1	8.7			
	S. adj.	"	641	625	645	572	546	619	648	r 599	594	0.8	9.1			
	Trend r	"	612	615	612	605	601	600	603	606	608	0.3	8.9			
M36. Clay bricks	Orig.	million	156	175	163	159	167	147	118	149	157	5.6	-8.9			
	S. adj.	"	155	156	157	158	155	165	175	156	140	-10.0	-6.6			
	Trend r	"	154	155	157	159	161	161	160	158	155	-1.9	1.7			
M37. Ready mixed concrete	Orig.	'000 cu m	r 1,421	r 1,504	1,452	1,391	1,471	1,173	1,006	r 1,207	1,422	17.8	3.9			
	S. adj. r	"	1,409	1,392	1,394	1,330	1,343	1,282	1,324	1,286	1,289	0.2	3.8			
	Trend r	"	1,395	1,391	1,375	1,353	1,333	1,315	1,302	1,292	1,284	0.6	-1.7			
M38. Basic iron, spiegeleisen and sponge iron	Orig.	'000 tonnes	643	649	643	644	627	590	637	563	634	12.6	4.4			
	S. adj.	"	609	613	614	602	600	573	635	632	656	3.8	3.6			
	Trend r	"	645	626	608	599	600	608	618	628	639	1.7	-0.3			
M39. Blooms and slabs	Orig.	"	661	680	681	697	653	626	679	601	626	4.3	-3.2			
	S. adj.	"	611	618	645	671	612	611	684	669	656	-2.0	-5.1			
	Trend r	"	663	645	633	632	638	646	652	658	662	0.6	-3.6			
M40. Insulated wire	Orig.	tonnes	5,803	5,681	6,400	7,082	6,881	5,167	3,764	r 6,359	6,607	3.9	23.8			
	S. adj.	"	5,220	5,483	6,037	6,588	6,581	6,029	7,142	r 6,234	5,724	-8.2	23.6			
	Trend r	"	5,308	5,662	6,001	6,276	6,438	6,484	6,444	6,355	6,218	-2.2	30.5			
M41. Cars and station wagons	Orig.	number	25,221	29,115	30,391	29,057	30,873	20,991	10,378	24,203	26,690	10.3	-9.7			
	S. adj.	"	23,510	24,982	27,759	27,254	27,295	26,749	22,233	24,536	23,378	-4.7	8.2			
	Trend r	"	24,956	25,642	26,317	26,631	26,415	25,738	24,897	24,096	23,331	3.2	-9.7			
M42. Vehicles for goods and materials	Orig.	"	2,119	2,385	2,461	2,451	2,621	1,875	1,165	2,386	2,899	21.5	22.9			
	S. adj.	"	2,049	2,001	2,330	2,015	2,606	2,335	2,751	2,478	2,470	-0.3	19.3			
	Trend r	"	2,035	2,072	2,157	2,273	2,383	2,462	2,518	2,556	2,566	0.4	25.7			

For footnote see end of tables.

PRODUCTION STATISTICS, AUSTRALIA, MARCH 1995.

No. Item	Series	Unit	1994									1995			Percentage changes between latest month shown and-	
			July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	prev. month	same month prev. year			
M43. Telephones	Orig.	'000	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.y.a.	n.y.a.	n.y.a.	
	S. adj.	"	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.y.a.	n.y.a.	n.y.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.y.a.	n.y.a.	n.y.a.	
M44. Domestic refrigerators	Orig.	number	31,215	30,794	32,820	36,534	40,757	34,119	32,499	34,436	42,025	22.0	-14.9			
	S. adj.	"	36,132	28,147	34,128	34,256	34,408	38,224	32,768	33,769	36,182	7.1	16.3			
	Trend	r	35.885	34,370	33,665	33,712	34,197	34,783	35,078	35,243	35,021	0.6	-14.5			
M45. Hot water heaters	Orig.	"	47,686	55,712	54,788	54,983	63,758	51,114	33,371	56,041	66,427	18.5	8.5			
	S. adj.	r	45,279	47,842	48,355	54,263	56,168	55,375	69,368	57,377	57,929	1.0	8.8			
	Trend	r	48,906	49,099	50,200	51,913	53,685	55,090	56,072	56,816	57,385	1.0	9.9			
M46. Clothes washing machines domestic	Orig.	"	30,175	29,999	30,386	26,260	30,394	20,995	13,999	23,091	27,426	18.8	6.6			
	S. adj.	"	27,924	23,983	27,108	26,656	26,305	24,140	29,320	23,507	24,153	2.8	-4.2			
	Trend	r	26,658	26,583	26,474	26,321	26,166	25,994	25,702	25,344	24,793	2.2	-4.8			
M47. Electric motors	Orig.	'000	276	283	302	271	274	207	136	264	315	19.5	9.6			
	S. adj.	"	281	275	253	262	240	233	197	265	272	2.6	9.5			
	Trend	r	281	274	262	250	241	238	239	242	249	2.6	-6.7			
M48. Electricity	Orig.	mil k Wh	14,603	14,749	13,540	13,457	13,243	13,565	13,461	12,751	13,783	8.1	2.2			
	S. adj.	"	13,447	13,595	13,590	13,678	13,778	13,963	14,000	13,813	13,696	-0.8	1.6			
	Trend	r	13,419	13,506	13,615	13,722	13,804	13,850	13,869	13,869	13,855	0.1	2.8			
M49. Gas	Orig.	terajoules	62,450	63,896	57,784	53,231	50,354	38,410	41,600	41,471	46,287	11.6	-1.3			
	S. adj.	"	51,372	50,883	53,306	53,949	53,997	45,670	52,415	51,499	52,067	1.1	0.9			
	Trend	r	51,071	51,652	52,059	52,125	51,822	51,387	51,107	51,035	50,985	-0.1	0.0			

PRODUCTION STATISTICS, AUSTRALIA, DECEMBER QUARTER 1994.

No. Item	Series	Unit	1992			1993				1994				Percentage changes between latest quarter shown and-	
			Dec.	Mar.	June	Sept.	Dec.	Mar.	June	Sept.	Dec.	prev. quarter	same quarter prev. year		
Q1. Men's and Boys' long trousers	Orig.	'000	958	850	1,121	984	880	753	1,037	1,035	902	-12.8	2.5		
	S. adj.	"	983	972	995	957	905	863	919	1,007	928	-7.8	2.6		
	Trend	"	992	987	975	949	904	894	924	955	969	1.5	7.1		
Q2. Women's and girls' long trousers	Orig.	"	275	428	402	352	278	464	190	344	384	11.5	38.2		
	S. adj.	"	318	391	392	346	324	420	186	339	450	32.7	38.9		
	Trend	"	390	377	362	371	350	314	304	332	377	13.4	7.7		
Q3. Jeans	Orig.	"	973	986	1,142	1,113	891	709	945	938	765	18.4	-14.1		
	S. adj.	"	1,072	1,160	1,032	980	981	833	855	826	843	2.1	-14.1		
	Trend	"	1,117	1,096	1,059	1,000	932	879	844	832	838	0.7	-10.0		
Q4. Men's shirts	Orig.	"	3,886	2,443	2,829	3,476	2,834	2,145	2,574	3,151	2,894	8.2	2.1		
	S. adj.	"	3,483	3,106	3,097	2,938	2,538	2,726	2,818	2,661	2,590	-2.7	2.1		
	Trend	"	3,446	3,234	3,022	2,840	2,719	2,693	2,722	2,697	2,617	-3.0	-3.8		
Q5. Women's shirts and blouses	Orig.	"	1,269	1,050	985	1,303	1,733	1,545	813	1,999	1,151	-42.4	-33.6		
	S. adj.	"	1,174	1,232	1,309	990	1,609	1,803	1,083	1,522	1,071	-29.7	-33.5		
	Trend	"	1,208	1,221	1,187	1,183	1,566	1,655	1,592	1,393	1,260	9.5	-19.6		
Q6. Undressed sawn timber(d)	Orig.	'000 cu m	766	709	831	856	853	827	905	936	890	-4.9	4.3		
	S. adj.	"	754	772	803	829	841	899	875	906	878	-3.1	4.4		
	Trend	"	763	776	797	828	855	878	890	892	887	-0.5	3.8		
Q7. Hardwood woodchips	Orig.	'000 tonnes	1,092	1,067	1,212	1,270	1,088	1,026	1,228	1,286	1,413	9.9	29.9		
	S. adj.	"	1,077	1,135	1,201	1,226	1,072	1,092	1,216	1,241	1,393	12.2	29.9		
	Trend	"	1,096	1,157	1,185	1,169	1,125	1,115	1,184	1,277	1,330	4.1	18.2		
Q8. Alumina(d)	Orig.	"	3,054	3,094	3,125	3,225	3,154	3,172	3,209	3,215	3,296	2.5	4.5		
	S. adj.	"	3,025	3,137	3,153	3,183	3,124	3,216	3,237	3,174	3,265	2.9	4.5		
	Trend	"	3,023	3,111	3,159	3,162	3,173	3,192	3,210	3,224	3,231	0.2	1.8		
Q9. Zinc(d)	Orig.	"	82	76	88	73	79	82	81	82	78	-4.9	-1.3		
	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	"	84	81	79	79	79	81	81	80	79	-1.3	0.1		
Q10. Silver(d)	Orig.	tonnes	87	80	93	88	95	91	104	88	79	10.2	-16.8		
	S. adj.	"	82	103	79	89	89	118	89	89	74	-16.0	-16.8		
	Trend	"	93	89	87	89	96	102	97	86	79	8.8	-18.0		
Q11. Copper(d)	Orig.	'000 tonnes	82	71	75	84	79	79	87	86	64	-25.6	-19.0		
	S. adj.	"	78	77	78	79	76	85	90	81	61	-24.1	18.9		
	Trend	"	78	78	77	77	80	85	85	79	68	-13.1	-14.7		
Q12. Lead(d)	Orig.	"	56	47	62	51	61	55	53	49	55	12.2	-9.8		
	S. adj.	"	54	60	56	48	59	69	48	46	53	16.9	-9.7		
	Trend	"	57	56	54	55	59	59	54	49	49	-1.7	-17.3		
Q13. Tin(d)	Orig.	tonnes	37	73	73	13	63	18	92	70	135	92.9	114.3		
	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	"	63	61	56	44	38	45	67	93	111	19.6	192.3		
Q14. Gold(d)	Orig.	"	70	70	73	80	74	75	79	78	71	-8.5	3.2		
	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	71	74	76	76	77	77	76	74	1.9	2.5		

(a) Source: Australian Dairy Corporation. (b) Source: Australian Tobacco Marketing Committee. (c) Trend break due to major company ceasing operations. (d) 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'.

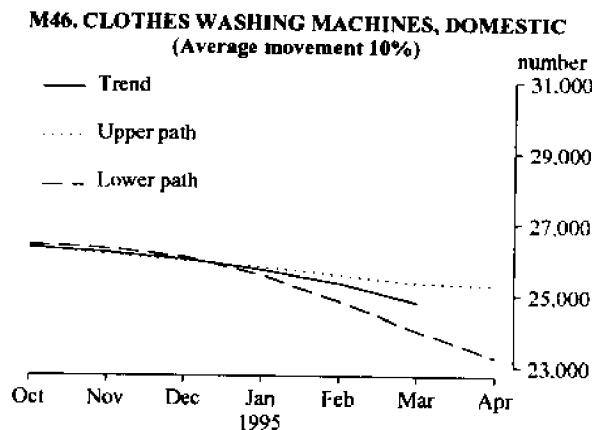
Readers should exercise care when interpreting the latest month's trend estimates because they will be revised when the next month's seasonally adjusted estimates become available. For further information, see Explanatory Notes 12 and 13.

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

Upper path The April seasonally adjusted estimate of the production of clothes washing machines, is higher than the March seasonally adjusted estimate by 10%.

Lower path The April seasonally adjusted estimate of the production of clothes washing machines, is lower than the March seasonally adjusted estimate by 10%.

The percentage change of 10% was chosen because the average monthly absolute percentage change for this series since January 1965 has been 10%.



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 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 are sourced from the Australian Tobacco Marketing Committee.

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. For further information please call Rod Smith on (03) 6157635

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 *Publications 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



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Information Services, ABS, PO Box 10, Belconnen ACT 2616

