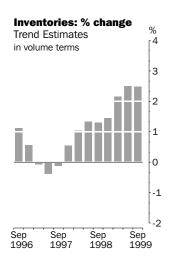


INVENTORIES AND SALES, SELECTED INDUSTRIES

AUSTRALIA

EMBARGO: 11:30AM (CANBERRA TIME) MON 29 NOV 1999



Sales Trend Estimates \$m in volume terms 56500 Wholesalers Manufacturers 52000 47500 43000 Jun 1998 Sep Dec Mar Jun Sep 1999

For further information about these and related statistics, contact Stephen Butcher on 02 9268 4240, or Client Services in any ABS office as shown on the back cover of this publication.

SEPTEMBER QTR KEY FIGURES

TREND(a)

	Sep 1998	Jun 1999	Sep 1999	Jun 1999 to Sep 1999	Sep 1998 to Sep 1999	
	\$m	\$m	\$m	% change	% change	
Inventories Sales by	75 425	80 146	82 142	2.5	8.9	
Manufacturers	51 810	52 236	51 737	-1.0	-0.1	
Wholesale trade	46 817	49 630	50 582	1.9	8.0	

SEASONALLY ADJUSTED(a)

	Sep 1998	Jun 1999	Sep 1999	Jun 1999 to Sep 1999	Sep 1998 to Sep 1999	
	\$m	\$m	\$m	% change	% change	
Inventories Sales by	75 254	79 983	82 552	3.2	9.7	
Manufacturers	51 564	52 139	51 524	-1.2	-0.1	
Wholesale trade	46 548	49 199	51 115	3.9	9.8	

(a) Estimates for private businesses, in volume terms.

SEPTEMBER OTR KEY POINTS

INVENTORIES

- The trend estimate (in volume terms) of inventories held by private businesses increased by \$1,996m (2.5%) since June 1999, the eighth successive quarter of growth.
- The largest increase was in respect of Wholesale trade (\$1,107m or 4.3%) followed by Manufacturing (\$639m or 2.0%) and Retail trade (\$223m or 1.2%).
- In original current price terms, major drivers of this growth were Machinery and equipment wholesalers (which includes motor vehicles) and manufacturers and Personal and household goods wholesalers and retailers.
- While some of the increase in inventories was due to the approach of Y2K, this was not a significant factor (see Note on Page 2 for more detail).

SALES

- Manufacturers' sales fell by \$499m (1.0%) from the June 1999 estimate of \$52,236m, the second successive quarter of decline. There has been a decrease of \$73m (0.1%) since September 1998.
- Wholesale sales increased by 1.9% (\$952m) from June 1999. This is the sixth successive quarter of growth of 1.9% or greater.

NOTES

FORTHCOMING ISSUES

ISSUE (Quarter)

December 1999

March 2000

RELEASE DATE

28 February 2000

29 May 2000

PRIVATISED MARKETING AUTHORITIES The series presented in this publication have not yet been adjusted to take account of the privatisation of the Australian Wheat Board, Wool International and the Barley Board on 1 July 1999. Because of the combined size of these businesses' inventories, the simple addition of them to the series for September quarter 1999 would cause a significant break in series resulting in misleading seasonally adjusted and trend estimates for some quarters to come. Other options for incorporating these businesses into these series without causing a significant break in series will be evaluated over the next one or two quarters. Users will be advised in due course of when and how these businesses will be included. As a result of the privatisation the Quarterly National Accounts estimates published in ABS Cat. No. 5206.0 will, from the September quarter 1999 onwards, merge the series previously known as 'Public Marketing Authorities' with 'Private non-farm inventories'. In the September quarter 1999, inventories held by the three privatised marketing authorities declined by around \$100m in seasonally adjusted chain volume measure terms. Combined with statistics elsewhere in this publication, this figure gives a good indication of the total change in private non-farm inventories that will be published for September quarter 1999.

CHANGES TO THIS ISSUE

Revisions to the series for inventories and sales have been made this quarter to reflect improvements in survey methodology and quality improvements in the business frame from which this survey is conducted. These adjustments affect historical levels from 1993 onwards but have minimal effect on movements.

EFFECTS OF Y2K

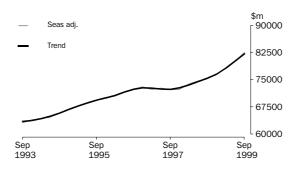
A telephone supplementary survey was undertaken in conjunction with the September quarter 1999 survey to determine the possible impact of Y2K on the level of inventories and sales. Preliminary findings reveal that, of the 500 units contacted, under ten percent either reported an impact on the level of their inventories or sales in the September quarter or predicted an impact in December quarter 1999. This result is broadly consistent with the results released in ABS Cat. No. 8152.0 *Year 2000 Problem* where only nine percent of businesses reported they would increase inventories to mitigate possible Y2K disruptions. The impact may be more important in some industries than others.

REVISIONS TO TREND

Readers should exercise care in the interpretation of the trend data as the data for the last three quarters in particular are likely to be revised with the addition of subsequent quarters' data. For further information and examples showing the sensitivity of trend data, refer to Trend Estimates in paragraph 28 of the Explanatory Notes.

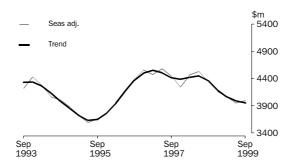
Dennis Trewin Acting Australian Statistician ALL SELECTED INDUSTRIES

Inventories held by private businesses continued its long term upward trend, increasing between 1.5% and 2.5% over the last four quarters.



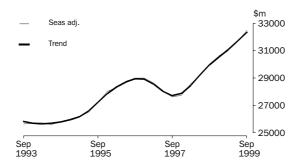
MINING

Apart from two quarters of growth in March and June quarters 1998, (0.9% and 0.6% respectively), inventories held by the Mining industry have been falling since March 1997. The current estimate of \$3,949m is \$41m (1.0%) lower than June 1999 and \$415m (9.5%) lower than September 1998.



MANUFACTURING

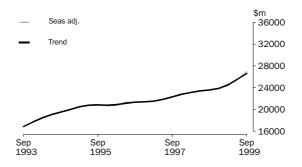
Growth rates for inventories held by Manufacturers have been between 1.8% and 2.8% per quarter for the last seven quarters. The current estimate of \$32,340m is \$2,379m (7.9%) higher than for September 1998. Industries contributing most to this increase were Machinery and equipment \$771m (11.9%), Food, beverage and tobacco \$576m (9.1%), Metal product \$519m (11.4%) and Petroleum, coal and chemical \$453m (7.7%).



(a) Reference year for chain volume measures is 1997–1998.

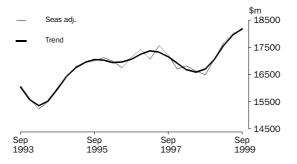
WHOLESALE TRADE

This is the fifteenth successive quarter of growth in inventories held by the Wholesale trade industry. The current estimate of \$26,666m is \$3,084m (13.1%) higher than for September 1998 and \$4,350m (19.5%) higher than September 1997.

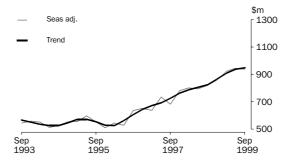


RETAIL TRADE

Inventories held by Retailers have increased for the last five quarters following five quarters of decline from June 1997 to June 1998. The current estimate of \$18,186m is \$1,492m (8.9%) higher than September 1998 and \$223m (1.2%) higher than June 1999.



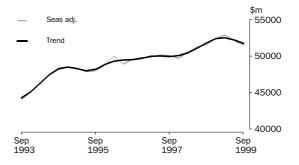
OTHER SELECTED INDUSTRIES (Electricity and gas supply; accommodation, cafes and restaurants) Inventories held by Other selected industries have increased over the last three years with growth rates between 1.2% and 7.5% per quarter. The current estimate of \$949m is \$12m (1.3%) higher than June 1999.



(a) Reference year for chain volume measures is 1997–1998.

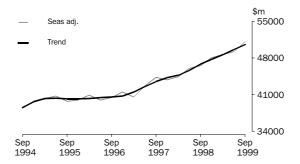
MANUFACTURERS' SALES

After six quarters of growth from the September quarter 1997, level estimates for Manufacturers' sales have fallen over the last two quarters to \$51,737m in September 1999. Since September quarter 1998, the estimate has fallen by \$73m (0.1%). The industries contributing most to this fall are Food, beverage and tobacco down \$530m (4.5%) and Textiles, clothing and footwear down \$210m (8.8%). Over the same period, Printing, publishing and recorded media increased by \$226m (8.5%) and Metal product by \$218m (2.8%).



WHOLESALE TRADE SALES

Growth rates for Wholesale trade sales have been between 1.1% and 2.6% per quarter for the last eleven quarters. The current estimate of \$50,582m is \$952m (1.9%) higher than June 1999 and \$3,765m (8.0%) higher than September 1998.



(a) Reference year for chain volume measures is 1997–1998.



INVENTORIES, By Industry—Current prices

	Mining	Manufacturing	Wholesale trade	Retail trade	Other selected industries(a)	Total selected industries
At end of	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • • • • •		• • • • • • • • • • • • • • •		• • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •
			ORIGINA	AL		
June 1997	4 499	27 893	21 173	17 076	701	71 342
June 1998	4 508	29 405	23 457	16 418	757	74 546
June 1999	3 857	31 185	25 170	17 992	937	79 141
1997–1998						
September	4 447	27 485	22 321	17 197	665	72 115
December	4 290	27 536	23 117	16 889	833	72 664
March	4 479	28 912	23 161	16 943	796	74 291
June	4 508	29 405	23 457	16 418	757	74 546
1998–1999	4 300	23 403	20 401	10 410	131	14 540
September	4 334	30 270	24 495	16 773	810	76 683
December	4 105	30 280	24 574	17 519	950	77 428
March	3 951	31 015	24 686	18 131	940	78 722
June 1999–2000	3 857	31 185	25 170	17 992	937	79 141
September	4 086	32 254	27 109	18 682	962	83 093
		• • • • • • • • • • • • • • •		• • • • • • • • • • • • • •	• • • • • • • • • • • • • • •	• • • • • • • •
			SEASONALLY A	DJUSTED		
June 1997	4 530	27 787	21 478	17 461	731	71 987
June 1998	4 529	29 280	23 795	16 793	791	75 188
June 1999	3 870	31 046	25 532	18 406	980	79 834
Julie 1999	00.0	01010	20 002	10 100	330	13 004
1997–1998	4 400	07.500	00.400	17.110	000	
September	4 422	27 506	22 129	17 113	680	71 850
December	4 288	27 912	22 964	16 685	774	72 623
March	4 482	28 626	23 194	16 848	806	73 956
June	4 529	29 280	23 795	16 793	791	75 188
1998–1999						
September	4 314	30 301	24 274	16 701	828	76 418
December	4 103	30 684	24 411	17 310	882	77 390
March	3 955	30 706	24 730	18 017	952	78 360
June	3 870	31 046	25 532	18 406	980	79 834
1999–2000 September	4 068	32 300	26 859	18 607	982	82 816
Осрастыет		02 000	20 000	10 001	302	02 010
			TREND ESTII	MATES		
luno 1007	A A71	27 776	21 590	17 210	694	71 720
June 1997	4 471	27 776	21 580	17 219	684	71 730
June 1998	4 453	29 410	23 789	16 716	808	75 176
June 1999	3 945	31 313	25 658	18 359	973	80 248
1997-1998						
September	4 407	27 649	22 147	17 075	723	72 001
December	4 403	27 918	22 773	16 894	760	72 748
March	4 445	28 568	23 333	16 728	786	73 860
June 1998–1999	4 453	29 410	23 789	16 716	808	75 176
September	4 331	30 136	24 140	16 894	833	76 334
December	4 112	30 544	24 422	17 324	885	77 287
March	3 979	30 852	24 900	17 890	938	78 559
June	3 945	31 313	25 658	18 359	973	80 248
1999–2000	5 545	01 010	20 000	10 000	313	00 Z 7 0
September	3 968	31 923	26 591	18 699	994	82 175
10						

⁽a) See paragraph 2 of the Explanatory Notes.



INVENTORIES, By Industry—Chain volume measures(a)

	Mining	Manufacturing	Wholesale trade	Retail trade	Other selected industries(b)	Total selected industries
At end of	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • • • • •	• • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •
			ORIGINA	AL .		
June 1997	4 546	28 137	21 485	17 171	705	72 037
June 1998	4 510	29 327	23 119	16 260	760	73 975
June 1999	3 934	31 782	25 083	17 600	904	79 303
1997–1998						
September	4 466	27 597	22 522	17 288	669	72 545
December	4 245	27 371	23 034	16 905	840	72 400
March	4 461	28 867	23 033	16 910	792	74 062
June	4 510	29 327	23 119	16 260	760	73 975
1998-1999						
September	4 361	29 987	23 791	16 570	802	75 512
December	4 165	30 199	24 055	17 280	924	76 622
March	4 062	31 303	24 344	17 790	909	78 407
June	3 934	31 782	25 083	17 600	904	79 303
1999-2000						
September	4 009	32 445	27 239	18 217	919	82 828
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •
			SEASONALLY A	DJUSTED		
June 1997	4 577	28 025	21 795	17 557	736	72 684
June 1998	4 530	29 202	23 451	16 632	794	74 608
June 1999	3 947	31 642	25 444	18 005	945	79 983
1007 1000						
1997–1998	4.440	27 617	22 329	17 203	684	70.070
September	4 440					72 272
December	4 243	27 741	22 882	16 701	780	72 350
March	4 464	28 578	23 065	16 815	802	73 723
June	4 530	29 202	23 451	16 632	794	74 608
1998–1999	4 2 4 4	20.010	02 577	16 100	810	75.054
September	4 341	30 019	23 577	16 498	819	75 254
December	4 163	30 604	23 895	17 074	857	76 594
March	4 066	30 990	24 387	17 678	921	78 042
June	3 947	31 642	25 444	18 005	945	79 983
1999–2000	2.002	22.404	26 988	18 143	038	00.550
September	3 992	32 491	26 988	18 143	938	82 552
• • • • • • • • • • •	• • • • • • • • • • • •		TREND ESTI	MATES	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •
			THEND LOTH	***************************************		
June 1997	4 503	28 029	21 860	17 320	691	72 402
June 1998	4 449	29 243	23 378	16 581	806	74 458
June 1999	3 990	31 701	25 559	17 963	937	80 146
1997–1998	4.440	07.744	00.242	47.440	707	70.000
September	4 413	27 714	22 316	17 149	727	72 320
December	4 383	27 868	22 783	16 919	763	72 716
March	4 421	28 457	23 137	16 673	788	73 477
June	4 449	29 243	23 378	16 581	806	74 458
1998–1999 Sontombor	1 261	20.061	22 502	16 604	၀၁၁	75 405
September	4 364	29 961	23 582	16 694 17 064	823	75 425
December	4 188	30 532	23 878	17 064	865	76 527
March	4 061	31 090	24 563	17 569	909	78 185
June	3 990	31 701	25 559	17 963	937	80 146
1999–2000 September	2 0 4 0	20.240	26 666	10 106	0.40	00 140
September	3 949	32 340	26 666	18 186	949	82 142

(a) Reference year for chain volume measures is 1997–1998. (b) See paragraph 2 of the Explanatory Notes.



PERCENTAGE CHANGES IN INVENTORIES, By Industry—Chain volume measures(a)

	Mining	Manufacturing	Wholesale trade	Retail trade	Other selected industries(b)	Total selected industries
Year to/Quarter to	%	%	%	%	%	%
• • • • • • • • • •	••••••	• • • • • • • • • • • • • • • • • • • •	ORIGIN	IAL	• • • • • • • • • • • • • • • •	• • • • • • •
June 1997	10.5	-2.1	2.2	4.8	38.7	1.8
June 1998	-0.8	4.2	7.6	-5.3	7.8	2.7
June 1999	-12.8	8.4	8.5	8.2	19.0	7.2
1997–1998						
September	-1.8	-1.9	4.8	0.7	-5.0	0.7
December	-4.9	-0.8	2.3	-2.2	25.4	-0.2
March	5.1	5.5	0.0	0.0	-5.7	2.3
June	1.1	1.6	0.4	-3.8	-4.1	-0.1
1998–1999						
September	-3.3	2.2	2.9	1.9	5.6	2.1
December	-4.5	0.7	1.1	4.3	15.2	1.5
March	-2.5	3.7	1.2	3.0	-1.6	2.3
June	-3.1	1.5	3.0	-1.1	-0.5	1.1
1999–2000 September	1.9	2.1	8.6	3.5	1.6	4.4
Ocpterriser	1.5	2.1	0.0	0.0	1.0	4.4
• • • • • • • • • • • •			SEASONALLY	ADJUSTED	• • • • • • • • • • • • • •	• • • • • • •
June 1997	10.2	-2.2	2.2	4.9	39.0	1.8
June 1998	-1.0	4.2	7.6	-5.3	7.9	2.6
June 1999	-12.9	8.4	8.5	8.3	19.1	7.2
1997–1998						
September	-3.0	-1.5	2.4	-2.0	-7.1	-0.6
December	-4.5	0.5	2.5	-2.9	14.2	0.1
March	5.2	3.0	0.8	0.7	2.8	1.9
June	1.5	2.2	1.7	-1.1	-1.0	1.2
1998–1999						
September	-4.2	2.8	0.5	-0.8	3.2	0.9
December	-4.1	2.0	1.3	3.5	4.7	1.8
March	-2.3	1.3	2.1	3.5	7.4	1.9
June	-2.9	2.1	4.3	1.8	2.7	2.5
1999–2000						
September	1.1	2.7	6.1	0.8	-0.8	3.2
• • • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • •	TREND EST	IMATES	• • • • • • • • • • • • • • •	• • • • • • •
June 1997	8.1	-2.4	3.6	2.1	22.8	1.3
June 1998	-1.2	4.3	6.9	-4.3	16.5	2.8
June 1999	-10.3	8.4	9.3	8.3	16.3	7.6
1997–1998						
September	-2.0	-1.1	2.1	-1.0	5.2	-0.1
December	-0.7	0.6	2.1	-1.3	4.9	0.5
March	0.9	2.1	1.6	-1.5	3.3	1.0
June 1998–1999	0.6	2.8	1.0	-0.5	2.2	1.3
September	-1.9	2.5	0.9	0.7	2.1	1.3
December	-4.0	1.9	1.3	2.2	5.1	1.5
March	-3.0	1.8	2.9	3.0	5.1	2.2
June	-3.0 -1.7	2.0	4.1	2.2	3.1	2.5
1999–2000		2.0			U.1	2.0
September	-1.0	2.0	4.3	1.2	1.2	2.5

⁽a) Reference year for chain volume measures is 1997–1998. (b) See paragraph 2 of the Explanatory Notes.



INVENTORIES, By Manufacturing industries—Current prices

	Food, beverage and tobacco	Textiles, clothing, footwear and leather(a)	Wood and paper products	Printing, publishing and recorded media	Petroleum, coal, chemical and assoc. products	Non- metallic mineral product	Metal product	Machinery and equipment	Other manu- facturing	Total manu– facturing
At end of	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • •	• • • • •
				C	RIGINAL					
June 1997	5 911	1 744	1 866	811	5 594	1 330	4 128	5 894	614	27 893
June 1998	6 528	1 803	2 015	882	5 569	1 138	4 427	6 330	714	29 405
June 1999	6 990	1 719	2 200	843	6 000	1 320	4 787	6 643	682	31 185
1997-1998										
September	5 759	1 777	1 939	835	5 514	1 283	4 105	5 627	646	27 485
December	5 709	1 772	1 928	906	5 577	1 192	4 113	5 698	642	27 536
March	6 187	1 681	1 976	934	5 599	1 188	4 349	6 265	732	28 912
June	6 528	1 803	2 015	882	5 569	1 138	4 427	6 330	714	29 405
1998–1999	0.000	4.047	0.045	054	F 050	4.057	4.500	0.554	700	
September	6 290	1 947	2 045	954	5 858	1 257	4 588	6 551	782	30 270
December	6 321	1 835	2 009	952	5 691	1 276	4 688	6 669	840	30 280
March	6 489	1 831	2 204	948	6 068	1 295	4 701	6 685	794	31 015
June 1999–2000	6 990	1 719	2 200	843	6 000	1 320	4 787	6 643	682	31 185
September	6 737	1 732	2 129	991	6 309	1 136	4 810	7 619	792	32 254
• • • • • • • • • • • •	• • • • • • • •	• • • • • • • • •		• • • • • • • •	• • • • • • • •		• • • • • • •			
				SEASON	ALLY ADJUS	TED				
June 1997	5 706	1 750	1 845	818	5 622	1 319	4 188	5 926	613	27 787
June 1998	6 293	1 811	1 992	890	5 597	1 129	4 498	6 360	710	29 280
June 1999	6 734	1 728	2 176	851	6 031	1 310	4 867	6 673	676	31 046
1997–1998										
September	5 812	1 759	1 950	828	5 481	1 277	4 083	5 665	651	27 506
December	5 888	1 785	1 959	904	5 672	1 213	4 094	5 755	642	27 912
March	6 169	1 680	1 958	937	5 509	1 183	4 328	6 132	730	28 626
June	6 293	1 811	1 992	890	5 597	1 129	4 498	6 360	710	29 280
1998-1999										
September	6 351	1 925	2 053	946	5 830	1 251	4 559	6 597	789	30 301
December	6 522	1 847	2 041	950	5 783	1 299	4 667	6 738	837	30 684
March	6 470	1 833	2 186	949	5 968	1 289	4 677	6 540	794	30 706
June	6 734	1 728	2 176	851	6 031	1 310	4 867	6 673	676	31 046
1999–2000 September	6 803	1 712	2 137	982	6 283	1 130	4 778	7 674	801	32 300
осрыные	0 803	1 1 12	2 131	302	0 203	1 150	4110	7 074	801	32 300
• • • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • •	TREN	D ESTIMATE	S	• • • • • • •) • • • • •
h.m. 1007	F 604	1 761	1.045	040	E 6E1	1 212	4.04.4	F 000	F07	07.770
June 1997	5 691	1 761	1 845	818	5 651	1 313	4 214	5 886	597	27 776
June 1998 June 1999	6 281 6 680	1 808 1 753	1 992 2 165	925 919	5 640 6 077	1 178 1 255	4 466 4 788	6 379 6 925	741 751	29 410 31 313
1997–1998										
September	5 801	1 758	1 920	849	5 567	1 275	4 094	5 752	633	27 649
December	5 951	1 740	1 959	888	5 543	1 215	4 140	5 812	670	27 918
March	6 119	1 754	1 975	914	5 577	1 171	4 296	6 065	697	28 568
June	6 281	1 808	1 992	925	5 640	1 178	4 466	6 379	741	29 410
1998–1999	0-					. = . =				
September	6 385	1 869	2 032	938	5 735	1 226	4 576	6 583	792	30 136
December	6 460	1 874	2 092	938	5 842	1 289	4 654	6 593	802	30 544
March	6 561	1 814	2 139	926	5 943	1 298	4 726	6 667	778	30 852
June	6 680	1 753	2 165	919	6 077	1 255	4 788	6 925	751	31 313
1999–2000										
September	6 797	1 704	2 173	929	6 237	1 190	4 828	7 323	742	31 923

⁽a) In using the seasonally adjusted series extra care should be exercised because of the difficulties associated with reliably estimating its seasonal pattern.



INVENTORIES, By Manufacturing industries—Chain volume measures(a)

	Food,	Textiles,		Printing,	Petroleum,	Non-				
	beverage	clothing,	Wood	publishing	coal, chemical			Machinery	Other	Total
	and tobacco	footwear and leather(b)	and paper products	and recorded media	and assoc. products	mineral product	Metal product	and equipment	manu- facturing	manu- facturing
At end of	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • •			• • • • • • • •		• • • • • • •	• • • • • •
				0	RIGINAL					
June 1997	5 994	1 751	1 881	819	5 604	1 329	4 172	5 961	617	28 137
June 1998	6 479	1 809	1 986	857	5 682	1 131	4 416	6 257	711	29 327
June 1999	7 126	1 739	2 177	798	6 296	1 334	5 023	6 622	666	31 782
1997–1998										
September	5 798	1 779	1 953	848	5 496	1 289	4 106	5 671	646	27 597
December	5 657	1 763	1 936	915	5 465	1 195	4 087	5 699	642	27 371
March	6 173	1 675	1 969	928	5 640	1 189	4 338	6 218	731	28 867
June	6 479	1 809	1 986	857	5 682	1 131	4 416	6 257	711	29 327
1998-1999										
September	6 221	1 949	1 985	899	5 933	1 243	4 551	6 452	754	29 987
December	6 315	1 831	1 940	884	5 859	1 264	4 709	6 589	808	30 199
March	6 509	1 832	2 161	887	6 345	1 295	4 861	6 644	769	31 303
June	7 126	1 739	2 177	798	6 296	1 334	5 023	6 622	666	31 782
1999–2000										
September	6 835	1 778	2 104	945	6 270	1 140	5 045	7 556	771	32 445
• • • • • • • • • • • • •	• • • • • • • •	• • • • • • • • • •	• • • • • • •	05400014		-	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • •
				SEASONA	LLY ADJUSTI	<u>-</u> υ				
June 1997	5 786	1 757	1 859	826	5 631	1 318	4 233	5 993	614	28 025
June 1998	6 245	1 817	1 963	865	5 711	1 122	4 487	6 287	704	29 202
June 1999	6 865	1 748	2 154	805	6 329	1 324	5 107	6 652	659	31 642
1997–1998										
September	5 852	1 762	1 964	840	5 462	1 282	4 084	5 709	653	27 617
December	5 834	1 776	1 967	912	5 558	1 217	4 068	5 756	642	27 741
March	6 155	1 674	1 950	931	5 550	1 183	4 317	6 086	730	28 578
June	6 245	1 817	1 963	865	5 711	1 122	4 487	6 287	704	29 202
1998-1999										
September	6 282	1 928	1 993	891	5 905	1 237	4 522	6 497	763	30 019
December	6 517	1 843	1 971	882	5 955	1 286	4 688	6 657	807	30 604
March	6 489	1 834	2 144	888	6 241	1 288	4 836	6 500	770	30 990
June	6 865	1 748	2 154	805	6 329	1 324	5 107	6 652	659	31 642
1999–2000 September	6 903	1 757	2 112	937	6 245	1 134	5 012	7 610	781	32 491
Coptoc.										
				TREND) ESTIMATES					
luna 4007	E 775	1 774	1.050	000	F 602	1 217	4.070	F 060	600	00.000
June 1997	5 775	1 774	1 859	828	5 623	1 317	4 278	5 968	600	28 029
June 1998 June 1999	6 230 6 771	1 809 1 773	1 958 2 135	896 867	5 709 6 276	1 170 1 262	4 438 5 002	6 302 6 887	731 730	29 243 31 701
1997–1998 September	5 825	1 757	1 933	861	5 531	1 278	4 095	5 790	634	27 714
December	5 934	1 735	1 933	894	5 508	1 218	4 123	5 810	672	27 868
March	5 934 6 077	1 751	1 967	907	5 586	1 170	4 275	6 022	696	28 457
June	6 230	1 809	1 958	896	5 709	1 170	4 438	6 302	731	29 243
1998–1999	0 200	1 000	1 000	0.50	5 105	- 1.O	T 700	3 302	101	20 240
September	6 337	1 869	1 976	886	5 857	1 214	4 559	6 493	770	29 961
December	6 443	1 873	2 031	875	6 039	1 280	4 698	6 519	774	30 532
March	6 603	1 818	2 093	866	6 184	1 298	4 864	6 618	753	31 090
June	6 771	1 773	2 135	867	6 276	1 262	5 002	6 887	730	31 701
1999–2000					2 = : -					
September	6 913	1 749	2 150	884	6 310	1 209	5 078	7 264	729	32 340

⁽a) Reference year for chain volume measures is 1997–1998.

⁽b) In using the seasonally adjusted series extra care should be exercised because of the difficulties associated with reliably estimating its seasonal pattern.



PERCENTAGE CHANGES IN MANUFACTURERS' INVENTORIES—Chain volume measures(a)

	Food, beverage and tobacco	Textiles, clothing, footwear and leather	Wood and paper products	Printing, publishing and recorded media	Petroleum, coal, chemical and assoc. products	Non- metallic mineral product	Metal product	Machinery and equipment	Other manu- facturing	Total manu– facturing
Year to/Quarter to	%	%	%	%	%	%	%	%	%	%
• • • • • • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • •	(ORIGINAL	• • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • • •
June 1997	1.4	3.4	8.6	-8.0	-2.6	5.9	-10.0	-3.6	-9.0	-2.1
June 1998	8.1	3.3	5.6	4.6	1.4	-14.9	5.9	5.0	15.1	4.2
June 1999	10.0	-3.9	9.7	-6.9	10.8	17.9	13.7	5.8	-6.3	8.4
1997–1998										
September	-3.3	1.6	3.9	3.6	-1.9	-3.0	-1.6	-4.9	4.7	-1.9
December	-2.4	-0.9	-0.9	7.9	-0.6	-7.2	-0.5	0.5	-0.7	-0.8
March	9.1	-5.0	1.7	1.5	3.2	-0.6	6.2	9.1	13.9	5.5
June	5.0	8.0	0.9	-7.7	0.7	-4.9	1.8	0.6	-2.8	1.6
1998–1999 September	-4.0	7.0	0.0	4.0	4.4	9.9	3.0	2.1	6.1	2.2
December	-4.0 1.5	7.8 -6.1	0.0 -2.3	4.9 -1.7	-1.2	9.9 1.7	3.5	3.1 2.1	7.2	2.2 0.7
March	3.1	0.0	-2.3 11.4	0.4	8.3	2.5	3.2	0.8	-4.8	3.7
June	9.5	-5.0	0.8	-10.1	-0.8	3.0	3.3	-0.3	-13.4	1.5
1999–2000	9.5	-3.0	0.6	-10.1	-0.6	5.0	5.5	-0.5	-13.4	1.5
September	-4.1	2.2	-3.4	18.5	-0.4	-14.5	0.4	14.1	15.8	2.1
• • • • • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • • •
				SEASON	ALLY ADJUS	TED				
June 1997	1.2	3.6	8.6	-7.9	-2.6	6.1	-9.8	-3.6	-9.3	-2.2
June 1998	7.9	3.4	5.6	4.7	1.4	-14.8	6.0	4.9	14.7	4.2
June 1999	9.9	-3.8	9.7	-6.9	10.8	18.0	13.8	5.8	-6.5	8.4
1997–1998										
September	1.1	0.3	5.7	1.7	-3.0	-2.7	-3.5	-4.7	6.3	-1.5
December	-0.3	0.8	0.2	8.6	1.8	-5.1	-0.4	0.8	-1.7	0.5
March	5.5	-5.7	-0.9	2.0	-0.2	-2.8	6.1	5.7	13.7	3.0
June	1.5	8.6	0.7	-7.1	2.9	-5.1	3.9	3.3	-3.5	2.2
1998–1999	0.0	0.4	4.5	0.4	0.4	40.0	0.0	0.0	0.4	
September	0.6	6.1	1.5	3.1	3.4	10.2	0.8	3.3	8.4	2.8
December March	3.7 -0.4	-4.4 -0.5	-1.1	-1.0 0.6	0.8 4.8	4.0 0.2	3.7	2.5	5.7 -4.6	2.0
June	-0.4 5.8	-0.5 -4.7	8.8 0.5	-9.3	4.8 1.4	2.8	3.2 5.6	-2.4 2.3	-4.6 -14.4	1.3 2.1
1999–2000	5.6	-4.7	0.5	-9.3	1.4	2.0	5.0	2.5	-14.4	2.1
September	0.6	0.5	-1.9	16.4	-1.3	-14.3	-1.9	14.4	18.6	2.7
• • • • • • • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • •
				TREN	D ESTIMATE	:S				
June 1997	1.8	4.7	9.8	-5.9	-2.2	-0.3	-10.2	-4.9	-8.7	-2.4
June 1998	7.9	2.0	5.4	8.2	1.5	-11.2	3.7	5.6	21.7	4.3
June 1999	8.7	-2.0	9.0	-3.1	9.9	7.8	12.7	9.3	0.0	8.4
1997–1998										
September	0.9	-1.0	4.0	4.0	-1.6	-3.0	-4.3	-3.0	5.7	-1.1
December	1.9	-1.3	1.7	3.9	-0.4	-4.7	0.7	0.3	5.9	0.6
March	2.4	1.0	0.0	1.4	1.4	-3.9	3.7	3.7	3.6	2.1
June	2.5	3.3	-0.4	-1.3	2.2	0.0	3.8	4.6	4.9	2.8
1998–1999		0 -								
September	1.7	3.3	0.9	-1.0	2.6	3.7	2.7	3.0	5.5	2.5
December	1.7	0.2	2.8	-1.3	3.1	5.5	3.1	0.4	0.5	1.9
March	2.5	-2.9 2.5	3.1	-1.0	2.4	1.4	3.5	1.5	-2.7	1.8
June 1999–2000	2.5	-2.5	2.0	0.1	1.5	-2.8	2.8	4.1	-3.1	2.0
September	2.1	-1.4	0.7	1.9	0.5	-4.2	1.5	5.5	-0.1	2.0

⁽a) Reference year for chain volume measures is 1997–1998.

MANUFACTURERS' AND WHOLESALE TRADE SALES—Current prices

MANUFACTURING										WHOLESALE TRADE	
	Food, beverage and tobacco	Textiles, clothing, footwear and leather	Wood and paper products	Printing, publishing and recorded media	Petroleum, coal,chemical and assoc. products	Non- metallic mineral product	Metal product	Machinery and equipment	Other manu- facturing	Total manu- facturing	Total wholesale
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • • • • • • • • • • • •		• • • • • • •	• • • • • • •		• • • • • • • •			• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • • • •
					ORIGINA	٩L					
Year to June 1997	43 749	9 128	13 150	9 623	34 630	9 718	31 930	38 732	6 508	197 168	164 912
June 1998	46 348	8 991	13 851	11 083	36 019	9 508	29 994	39 010	6 753	201 556	178 534
June 1999	47 111	9 494	14 462	11 206	35 680	11 097	31 020	41 615	7 067	208 751	190 358
1007 1000											
1997–1998 September	11 694	2 293	3 447	2 656	8 945	2 453	7 655	10 061	1 768	50 973	43 792
December	12 626	2 295	3 572	2 989	9 003	2 389	7 536	9 922	1 809	52 141	46 098
March	10 830	2 171	3 154	2 672	8 763	2 319	7 066	8 990	1 496	47 460	42 342
June	11 198	2 232	3 679	2 766	9 308	2 348	7 736	10 037	1 679	50 982	46 303
1998-1999											
September	12 161	2 552	3 720	2 752	9 015	2 707	7 978	10 472	1 666	53 021	47 263
December	12 930	2 427	3 731	2 794	9 171	2 900	7 990	11 034	2 063	55 040	49 968
March	11 209	2 257	3 334	2 775	8 450	2 657	7 168	9 818	1 727	49 396	45 225
June	10 811	2 259	3 676	2 885	9 044	2 833	7 883	10 291	1 611	51 294	47 903
1999–2000											
September	11 366	2 217	4 013	3 003	9 136	2 544	7 965	10 741	1 776	52 761	50 826
• • • • • • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	SEA	SONALLY AI	DJUSTED	•••••	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • • •
Year to											
June 1997	43 816	9 136	13 161	9 632	34 622	9 707	31 894	38 762	6 525	197 257	164 980
June 1998	46 351	8 999	13 858	11 122	36 034	9 527	29 967	39 021	6 757	201 635	178 356
June 1999	47 156	9 516	14 465	11 204	35 627	11 072	31 066	41 644	7 078	208 828	190 574
1997–1998											
September	11 396	2 201	3 345	2 662	8 966	2 414	7 421	9 803	1 705	49 913	43 315
December	11 531	2 283	3 428	2 745	8 786	2 251	7 380	9 630	1 657	49 691	44 024
March	11 633	2 266	3 342	2 874	9 203	2 480	7 470	9 656	1 672	50 596	44 694
June	11 791	2 248	3 743	2 841	9 079	2 382	7 696	9 933	1 722	51 435	46 322
1998–1999	44.000	0.470	2.044	0.704	0.000	0.007	7 000	10.100	4 004	E4 000	47.470
September December	11 898 11 674	2 470 2 357	3 611 3 584	2 701 2 620	8 993 9 089	2 627 2 797	7 823 7 754	10 199 10 713	1 604 1 906	51 926 52 494	47 170 47 585
March	12 187	2 414	3 530	2 920	9 069 8 729	2 773	7 653	10 713	1 900	52 494 52 668	47 585 47 897
June	11 397	2 274	3 739	2 964	8 816	2 874	7 837	10 185	1 654	51 740	47 922
1999–2000	11 001	22	0 100	2 00 1	0 010	2011	1 001	10 100	1001	01 1 10	41 322
September	10 994	2 098	3 897	3 007	9 272	2 532	7 745	10 459	1 724	51 728	50 567
• • • • • • • • • • • • • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •				• • • • • •	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • • •
Voor to				Т	REND ESTI	WATES					
Year to June 1997	43 777	9 087	13 167	9 665	34 799	9 687	31 712	38 720	6 471	197 086	165 120
June 1997 June 1998	46 241	9 105	13 815	11 053	35 985	9 598	30 078	39 079	6 697	201 652	178 237
June 1998 June 1999	47 085	9 421	14 539	11 238	35 786	10 930	31 017	41 708	7 157	208 884	191 134
1007 1000											
1997–1998 September	11 275	2 280	3 350	2 643	8 864	2 399	7 509	9 779	1 677	49 776	43 065
December	11 523	2 242	3 384	2 773	8 971	2 356	7 409	9 676	1 681	50 016	44 034
March	11 689	2 263	3 487	2 841	9 049	2 369	7 489	9 695	1 669	50 550	45 022
June	11 754	2 320	3 595	2 797	9 101	2 474	7 670	9 929	1 670	51 310	46 117
1998–1999	-			-	-				-		
September	11 853	2 379	3 625	2 723	9 066	2 612	7 760	10 294	1 744	52 056	47 081
December	11 923	2 417	3 590	2 727	8 921	2 754	7 763	10 513	1 819	52 428	47 495
March	11 800	2 364	3 606	2 835	8 871	2 808	7 742	10 498	1 826	52 351	47 882
June	11 509	2 261	3 718	2 953	8 928	2 755	7 752	10 402	1 769	52 049	48 676
1999–2000						_	_				
September	11 135	2 158	3 856	3 054	9 069	2 651	7 777	10 305	1 682	51 655	49 750

MANUFACTURERS' AND WHOLESALE TRADE SALES—Chain volume measures(a)

	MANUFA	ACTURING.									WHOLESALE TRADE
	Food, beverage and tobacco	Textiles, clothing, footwear and leather	Wood and paper products	Printing, publishing and recorded media	Petroleum, coal, chemical and assoc. products	Non- metallic mineral product	Metal product	Machinery and equipment	Other manu- facturing	Total manu- facturing	Total wholesale
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	0.000	• • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • • •
Year to					ORIGIN	AL					
June 1997	44 848	9 165	13 126	9 765	34 288	9 852	32 798	39 073	6 507	199 354	165 177
June 1998	46 348	8 991	13 851	11 083	36 019	9 508	29 994	39 010	6 753	201 556	178 534
June 1999	46 752	9 523	14 268	10 846	36 567	11 033	31 547	41 512	6 966	209 014	192 409
1997–1998											
September	11 830	2 281	3 454	2 667	8 952	2 461	7 650	10 118	1 762	51 174	44 392
December	12 625	2 286	3 597	3 007	8 945	2 395	7 545	9 943	1 810	52 141	45 835
March	10 791	2 176	3 157	2 660	8 785	2 316	7 062	8 975	1 500	47 427	42 202
June	11 101	2 248	3 643	2 749	9 337	2 336	7 737	9 974	1 681	50 813	46 104
1998–1999											
September	11 970	2 567	3 671	2 669	9 130	2 686	7 931	10 401	1 642	52 667	46 701
December	12 812	2 428	3 685	2 708	9 299	2 880	8 100	11 011	2 034	54 957	50 201
March	11 106	2 261	3 294	2 682	8 772	2 643	7 372	9 821	1 707	49 659	46 193
June	10 864	2 267	3 618	2 787	9 365	2 824	8 145	10 278	1 583	51 731	49 314
1999–2000 September	11 342	2 232	3 918	2 812	9 203	2 525	8 141	10 686	1 725	52 584	51 283
September	11 342	2 232	2 910	2 012	9 203	2 525	0 141	10 000	1725	52 564	51 283
• • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	SF	ASONALLY A	DILISTE)	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • • • •
Year to				JL.	ASSIVALLIA	DJOSTEL					
June 1997	44 848	9 165	13 126	9 765	34 288	9 852	32 798	39 073	6 507	199 354	165 177
June 1998	46 348	8 991	13 851	11 083	36 019	9 508	29 994	39 010	6 753	201 556	178 534
June 1999	46 752	9 523	14 268	10 846	36 567	11 033	31 547	41 512	6 966	209 014	192 409
1997–1998											
September	11 526	2 187	3 350	2 663	8 968	2 419	7 429	9 854	1 695	50 090	44 271
December	11 533	2 273	3 451	2 751	8 723	2 252	7 399	9 649	1 657	49 683	43 843
March	11 597	2 270	3 345	2 852	9 222	2 471	7 471	9 639	1 677	50 546	44 432
June	11 691	2 261	3 705	2 816	9 107	2 367	7 696	9 868	1 724	51 237	45 987
1998–1999	11 051	2 201	3 703	2 010	3 101	2 301	1 050	3 000	1127	31 231	45 561
September	11 705	2 481	3 563	2 617	9 115	2 608	7 770	10 125	1 580	51 564	46 548
December	11 555	2 353	3 539	2 539	9 227	2 783	7 847	10 683	1 876	52 403	48 020
March	12 057	2 412	3 487	2 824	9 078	2 767	7 853	10 542	1 889	52 908	48 641
June	11 434	2 276	3 680	2 866	9 147	2 875	8 078	10 162	1 621	52 139	49 199
1999-2000											
September	10 953	2 107	3 803	2 819	9 358	2 521	7 897	10 395	1 671	51 524	51 115
• • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •
Year to					TREND ESTI	MATES					
June 1997	44 824	9 116	13 136	9 799	34 463	9 833	32 583	39 022	6 452	199 170	165 371
June 1998	46 217	9 098	13 807	11 005	35 970	9 579	30 093	39 067	6 689	201 521	178 127
June 1999	46 666	9 429	14 336	10 873	36 642	10 888	31 485	41 565	7 046	208 934	192 831
100= 1000											
1997–1998 September	11 206	2 269	2 250	2 651	0 024	2 405	7 5 4 0	0 000	1 671	49 947	42 F27
September	11 386	2 268	3 359	2 651	8 834 9 051	2 405	7 548 7 416	9 828	1 671		43 537
December March	11 554	2 234	3 397	2 772	8 951	2 354	7 416	9 695	1 681	50 055	44 234
March	11 638	2 265	3 484	2 825	9 047	2 360	7 480 7 640	9 671	1 671	50 443 51 076	44 722 45 634
June 1998–1999	11 638	2 330	3 567	2 757	9 137	2 459	7 649	9 873	1 665	51 076	45 634
September	11 697	2 387	3 580	2 656	9 171	2 595	7 762	10 235	1 726	51 810	46 817
December	11 781	2 418	3 545	2 646	9 171	2 742	7 850	10 235	1 726	52 382	46 817 47 749
March	11 713	2 362	3 545 3 556	2 739	9 131	2 801	7 913	10 478	1 793 1 795	52 382 52 506	47 749 48 635
June				2 832	9 147	2 750					
1999–2000	11 475	2 263	3 655	2 032	a 1a2	2 /50	7 960	10 375	1 732	52 236	49 630
September	11 167	2 177	3 760	2 882	9 267	2 650	7 980	10 257	1 642	51 737	50 582
	(a) Referer	nce year for c	hain volume	measures is 19	997–1998.						



PERCENTAGE CHANGES IN SALES—Chain volume measures(a)

Property Property		MANUFACTURING										
Vear to ORIGINAL		beverage and	clothing, footwear	and paper	publishing and recorded	coal, chemical and assoc.	metallic mineral		and	manu-	manu-	
Vear to June 1997 0.8 2.9 10.0 -2.5 1.1 -5.0 -0.7 6.2 3.1 1.9 2.9	Period	%	%	%	%	%	%	%	%	%	%	%
Vear to June 1997	• • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •		• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • • • • • •
June 1997 0.8 2.9 10.0 -2.5 1.1 -5.0 -0.7 6.2 3.1 1.9 2.9 June 1998 3.3 -1.9 5.5 13.5 5.0 -3.5 -8.5 -0.2 3.8 1.1 8.1 June 1999 0.0 5.0 3.0 -2.1 1.5 16.0 5.2 6.4 3.2 3.7 7.8 1997-1998 September 11.5 -2.8 5.3 8.4 -0.1 -0.6 -4.1 0.5 10.3 2.8 3.8 December 6.7 0.2 4.1 12.8 -0.1 -2.7 -1.4 -1.7 2.7 1.9 3.2 March -14.5 -4.8 1.22 -11.5 -1.8 -3.3 -6.4 -9.7 -1.1 -9.0 -7.9 June 2.9 3.3 15.4 3.3 6.3 0.9 9.6 11.1 12.0 7.1 9.2 1998-1999 September 7.0 -5.4 0.4 1.5 1.8 -3.3 -6.4 -9.7 -1.1 1.0 7.1 9.2 1998-1999 September 7.0 -5.4 0.4 1.5 1.8 7.3 2.1 5.9 2.3 4.3 -2.3 3.6 1.3 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9						ORIGINA	L					
June 1998		0.8	2.0	10.0	2.5	1 1	5.0	0.7	6.2	2.1	1.0	2.0
June 1999 0.9 5.9 3.0 -2.1 1.5 16.0 5.2 6.4 3.2 3.7 7.8 1997-1998 September 11.5 -2.8 5.3 8.4 -0.1 -0.6 -4.1 0.5 10.3 2.8 3.8 December 6.7 0.2 4.1 12.8 -0.1 -2.7 -1.4 -1.7 2.7 1.9 3.2 March -14.5 -4.8 -1.2 -11.5 -1.8 -3.3 -6.4 -9.7 -1.1 -9.0 -7.9 June 2.9 3.3 15.4 3.3 6.3 0.9 9.6 11.1 12.0 7.1 9.2 June 1998-1999 September 7.8 14.2 0.8 -2.9 -2.2 15.0 2.5 4.3 -2.3 3.6 1.3 December 7.0 -5.4 0.4 1.5 1.8 7.3 2.1 5.9 22.8 4.3 7.5 March -13.3 -6.9 -10.6 -0.9 -5.7 -8.3 -9.0 -10.8 -16.1 -9.6 -8.0 June -2.2 0.3 9.8 3.9 6.8 6.9 10.5 4.7 7.3 4.2 6.8 1999-2000 September 4.4 -1.5 8.3 0.9 -1.7 -10.6 0.0 4.0 9.0 1.6 4.0 Vear to June 1997 0.8 2.9 10.0 -2.5 1.1 -5.0 -3.5 -0.2 3.8 1.1 9. 29 June 1998 3.3 -1.9 5.5 13.5 5.0 -3.5 -8.5 -0.2 3.8 1.1 8.1 June 1999 0.9 5.9 3.0 -2.1 1.5 16.0 5.2 6.4 3.2 3.7 7.8 1997-1998 September 3.5 -7.4 0.4 5.7 2.5 -3.8 -6.7 -1.0 4.0 -0.1 3.7 December 0.1 3.9 3.0 3.3 -2.7 -6.9 -0.4 -2.1 -2.2 -0.8 -1.0 March 0.5 -0.1 -3.1 3.7 5.7 9.7 1.0 -0.1 1.2 1.7 1.3 June 1998 -0.8 -0.4 10.8 -1.2 -1.2 -4.2 3.0 2.4 2.8 1.4 3.5 September -1.3 -5.1 -0.7 -3.0 1.2 6.7 1.0 5.5 6.7 1.0 1.3 1.2 1.3 June 1999 0.9 3.0 3.8 -1.2 -1.2 -4.2 3.0 2.4 2.8 1.4 3.5 September -1.3 -5.1 -0.7 -3.0 1.2 6.7 1.0 1.0 2.6 6.8 3.0 6.1 2.0 September -1.3 -5.1 -0.7 -3.0 1.2 6.7 1.0 5.5 6.7 1.0 1.3 1.2 7.7 June 1999 1.0 3.6 3.8 -1.2 -1.2 -1.2 -1.2 -1.2 3.7 -1.0 -1.1 1.2 7.7 1.3 1.9 -1.5 1.5 1.5 1.5 1.5 3.7 3.1 1.2 7.7 1.3												
September 11.5												
September 1.15 -2.8 5.3 8.4 -0.1 -0.6 -4.1 0.7 2.7 1.9 3.2	Julie 1999	0.0	0.0	0.0		1.0	20.0	0.2	0	0.2	0	1.0
December 6.7	1997-1998											
March 14.5	September	11.5	-2.8	5.3	8.4	-0.1	-0.6	-4.1	0.5	10.3	2.8	3.8
June 2.9 3.3 15.4 3.3 6.3 0.9 9.6 11.1 12.0 7.1 9.2 1998-1999	December	6.7	0.2	4.1	12.8	-0.1	-2.7	-1.4	-1.7	2.7	1.9	3.2
1998-1998 September 7,0 -54 0.4 1.5 1.8 7.3 2.1 5.9 2.3 4.3 -2.3 3.6 1.3 December 7,0 -54 0.4 1.5 1.8 7.3 2.1 5.9 2.38 4.3 7.5 March -1.33 -6.9 -1.06 -0.9 5.7 -8.3 -0.0 -1.08 -1.61 -9.6 8.0 June -2.2 0.3 9.8 3.9 6.8 6.9 10.5 4.7 -7.3 4.2 6.8 1999-2000 September 4.4 -1.5 8.3 0.9 -1.7 -10.6 0.0 4.0 9.0 1.6 4.0 September 4.4 -1.5 8.3 0.9 -1.7 -10.6 0.0 4.0 9.0 1.6 4.0 September 9.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1												
September 7.8 142 0.8 -2.9 -2.2 15.0 2.5 4.3 -2.3 3.6 1.3		2.9	3.3	15.4	3.3	6.3	0.9	9.6	11.1	12.0	7.1	9.2
December 7.0 5.4 0.4 1.5 1.8 7.3 2.1 5.9 22.8 4.3 7.5 March 13.3 -6.9 -1.06 -0.9 5.7 8.3 -9.0 -1.05 -1.08 -0.8 June -2.2 0.3 9.8 3.9 6.8 6.9 10.5 4.7 -7.3 4.2 6.8 1999-2000 September 4.4 -1.5 8.3 0.9 -1.7 -10.6 0.0 4.0 9.0 1.6 4.0 Year to						0.5						
March June 13.3 6-6, 9 10.6 -0.9 -5.7 8-3 -9.0 -10.8 -16.1 -9.6 8.0 1999-2000 September	•											
June -2.2 0.3 9.8 3.9 6.8 6.9 10.5 4.7 -7.3 4.2 6.8												
1999-2000 September												
September 4.4 -1.5 8.3 0.9 -1.7 -10.6 0.0 4.0 9.0 1.6 4.0		-2.2	0.3	9.8	3.9	6.8	6.9	10.5	4.7	-7.3	4.2	6.8
Seasonally adjusted Seasonally adjusted		1.1	1.5	0 2	0.0	1.7	10.6	0.0	4.0	0.0	1.6	4.0
Vear to June 1997 0.8 2.9 10.0 -2.5 1.1 -5.0 -0.7 6.2 3.1 1.9 2.9 June 1998 3.3 -1.9 5.5 13.5 5.0 -3.5 -8.5 -0.2 3.8 1.1 8.1 June 1999 0.9 5.9 3.0 -2.1 1.5 16.0 5.2 6.4 3.2 3.7 7.8 1997-1998 September 3.5 -7.4 0.4 5.7 2.5 -3.8 -6.7 -1.0 4.0 -0.1 3.7 December 0.1 3.9 3.0 3.3 -2.7 -6.9 -0.4 -2.1 -2.2 -0.8 -1.0 March 0.5 -0.1 -3.1 3.7 5.7 9.7 1.0 -0.1 1.2 1.7 1.3 June 0.8 -0.4 10.8 -1.2 -1.2 -4.2 3.0 2.4 2.8 1.4 3.5 1998-1999 September 0.1 9.7 -3.8 -7.1 0.1 10.2 1.0 2.6 -8.3 0.6 1.2 December -1.3 -5.1 -0.7 -3.0 1.2 6.7 1.0 5.5 18.7 1.6 3.2 March 4.3 2.5 -1.5 11.3 -1.6 -0.6 0.1 -1.3 0.7 1.0 1.3 June -5.2 -5.6 5.5 1.5 0.8 3.9 2.9 -3.6 -14.2 -1.5 1.1 1999-2000 September -4.2 -7.5 3.4 -1.6 2.3 -1.2 -2.3 -2.2 2.3 3.1 -1.2 3.9 Year to June 1997 0.4 2.3 10.0 -1.8 2.0 -5.1 -1.7 6.0 1.1 1.7 2.7 June 1998 3.1 -0.2 5.1 12.3 4.4 -2.6 -7.6 0.1 3.7 1.2 3.7 June 1999 1.0 3.6 3.8 -1.2 1.9 13.7 4.6 6.4 5.3 3.7 8.3 1997-1998 September 1.4 -2.0 0.0 4.9 0.9 -2.1 -3.7 -0.6 2.1 -0.1 2.3 December 1.5 -1.5 1.2 4.6 1.3 -2.1 -1.7 -1.4 0.6 0.2 1.6 March 0.7 1.4 2.5 1.9 1.1 0.2 0.9 -0.3 -0.6 0.8 1.1 June 0.0 2.8 2.4 -2.4 1.0 4.2 2.3 2.1 -0.4 1.3 2.0 1998-1999 September 1.5 -2.5 1.9 1.1 0.2 0.9 -0.3 -0.6 0.8 1.1 June 0.0 2.8 2.4 -2.4 1.0 4.2 2.3 2.1 -0.4 1.3 2.0 September 0.5 2.4 0.4 -3.7 0.4 5.5 1.5 3.7 3.7 1.4 2.6 December 0.5 2.4 0.4 -3.7 0.4 5.5 1.5 3.7 3.7 1.4 2.6 December 0.6 -2.3 0.3 3.5 0.2 2.2 0.8 0.0 0.2 0.2	September	4.4	-1.5	0.3	0.9	-1.7	-10.6	0.0	4.0	9.0	1.0	4.0
June 1997	• • • • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • •			JUSTED	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • • •
June 1998	Year to											
1997-1998 3.5 -7.4 0.4 5.7 2.5 -3.8 -6.7 -1.0 4.0 -0.1 3.7	June 1997	0.8	2.9	10.0	-2.5	1.1	-5.0	-0.7	6.2	3.1	1.9	2.9
September 3.5 -7.4 0.4 5.7 2.5 -3.8 -6.7 -1.0 4.0 -0.1 3.7		3.3	-1.9	5.5	13.5	5.0	-3.5	-8.5	-0.2	3.8	1.1	8.1
September 3.5 -7.4 0.4 5.7 2.5 -3.8 -6.7 -1.0 4.0 -0.1 3.7 December 0.1 3.9 3.0 3.3 -2.7 -6.9 -0.4 -2.1 -2.2 -0.8 -1.0 March 0.5 -0.1 -3.1 3.7 5.7 9.7 1.0 -0.1 1.2 1.7 1.3 June 0.8 -0.4 10.8 -1.2 -1.2 -4.2 3.0 2.4 2.8 1.4 3.5 1998-1999 September 0.1 9.7 -3.8 -7.1 0.1 10.2 1.0 2.6 -8.3 0.6 1.2 December -1.3 -5.1 -0.7 -3.0 1.2 6.7 1.0 5.5 18.7 1.6 3.2 March 4.3 2.5 -1.5 11.3 -1.6 -0.6 0.1 -1.3 0.7 1.0 1.3 1.1 1999-2000	June 1999	0.9	5.9	3.0	-2.1	1.5	16.0	5.2	6.4	3.2	3.7	7.8
September 3.5 -7.4 0.4 5.7 2.5 -3.8 -6.7 -1.0 4.0 -0.1 3.7 December 0.1 3.9 3.0 3.3 -2.7 -6.9 -0.4 -2.1 -2.2 -0.8 -1.0 March 0.5 -0.1 -3.1 3.7 5.7 9.7 1.0 -0.1 1.2 1.7 1.3 June 0.8 -0.4 10.8 -1.2 -1.2 -4.2 3.0 2.4 2.8 1.4 3.5 1998-1999 September 0.1 9.7 -3.8 -7.1 0.1 10.2 1.0 2.6 -8.3 0.6 1.2 December -1.3 -5.1 -0.7 -3.0 1.2 6.7 1.0 5.5 18.7 1.6 3.2 March 4.3 2.5 -1.5 11.3 -1.6 -0.6 0.1 -1.3 0.7 1.0 1.3 1.1 1999-2000	1997–1998											
March		3.5	-7.4	0.4	5.7	2.5	-3.8	-6.7	-1.0	4.0	-0.1	3.7
June 0.8 -0.4 10.8 -1.2 -1.2 -4.2 3.0 2.4 2.8 1.4 3.5 1998-1999 September 0.1 9.7 -3.8 -7.1 0.1 10.2 1.0 2.6 -8.3 0.6 1.2 December -1.3 -5.1 -0.7 -3.0 1.2 6.7 1.0 5.5 18.7 1.6 3.2 March 4.3 2.5 -1.5 11.3 -1.6 -0.6 0.1 -1.3 0.7 1.0 1.3 June -5.2 -5.6 5.5 1.5 0.8 3.9 2.9 -3.6 -14.2 -1.5 1.1 1999-2000 September -4.2 -7.5 3.4 -1.6 2.3 -12.3 -2.2 2.3 3.1 -1.2 3.9 Year to June 1997 0.4 2.3 10.0 -1.8 2.0 -5.1 -1.7 6.0 1.1 1.7 2.7 June 1998 3.1 -0.2 5.1 12.3 4.4 -2.6 -7.6 0.1 3.7 1.2 7.7 June 1999 1.0 3.6 3.8 -1.2 1.9 13.7 4.6 6.4 5.3 3.7 8.3 1997-1998 September -1.4 -2.0 0.0 4.9 0.9 -2.1 -3.7 -0.6 2.1 -0.1 2.3 December 1.5 -1.5 1.2 4.6 1.3 -2.1 -1.7 -1.4 0.6 0.2 1.6 March 0.7 1.4 2.5 1.9 1.1 0.2 0.9 -0.3 -0.6 0.8 1.1 June 0.0 2.8 2.4 -2.4 1.0 4.2 2.3 2.1 -0.4 1.3 2.0 1998-1999 September 0.5 2.4 0.4 -3.7 0.4 5.5 1.5 3.7 3.7 1.4 2.6 December 0.7 1.3 -1.0 -0.4 -0.4 5.6 1.1 2.4 3.8 1.1 2.0 March -0.6 -2.3 0.3 3.5 0.2 2.2 0.8 0.0 0.0 0.2 0.2 1.9 June 1999-2000		0.1	3.9	3.0		-2.7		-0.4	-2.1	-2.2	-0.8	-1.0
1998-1999 September	March	0.5	-0.1	-3.1	3.7	5.7	9.7	1.0	-0.1	1.2	1.7	1.3
September 0.1 9.7 -3.8 -7.1 0.1 10.2 1.0 2.6 -8.3 0.6 1.2 December -1.3 -5.1 -0.7 -3.0 1.2 6.7 1.0 5.5 18.7 1.6 3.2 March 4.3 2.5 -1.5 11.3 -1.6 -0.6 0.1 -1.3 0.7 1.0 1.3 June -5.2 -5.6 5.5 1.5 0.8 3.9 2.9 -3.6 -14.2 -1.5 1.1 TREND ESTIMATES Year to June 1997 0.4 2.3 10.0 -1.8 2.0 -5.1 -1.7 6.0 1.1 1.7 2.7 June 1998 3.1 -0.2 5.1 12.3 4.4 -2.6 -7.6 0.1 3.7 1.2 7.7 June 1999 1.0 3.6 3.8 -1.2 1.9 13.7 4.6 6.4 5.3	June	0.8	-0.4	10.8	-1.2	-1.2	-4.2	3.0	2.4	2.8	1.4	3.5
December -1.3 -5.1 -0.7 -3.0 1.2 6.7 1.0 5.5 18.7 1.6 3.2	1998-1999											
March June	September	0.1	9.7	-3.8	-7.1	0.1	10.2	1.0	2.6	-8.3	0.6	1.2
June	December	-1.3	-5.1	-0.7	-3.0	1.2	6.7	1.0	5.5	18.7	1.6	3.2
1999-2000 September -4.2 -7.5 3.4 -1.6 2.3 -12.3 -2.2 2.3 3.1 -1.2 3.9 TREND ESTIMATES Year to June 1997 0.4 2.3 10.0 -1.8 2.0 -5.1 -1.7 6.0 1.1 1.7 2.7 June 1998 3.1 -0.2 5.1 12.3 4.4 -2.6 -7.6 0.1 3.7 1.2 7.7 June 1999 1.0 3.6 3.8 -1.2 1.9 13.7 4.6 6.4 5.3 3.7 8.3 8.3 -1.2 1.9 13.7 4.6 6.4 5.3 3.7 8.3 8.3 -1.2 1.9 1.3 7.4 6.0 1.1 1.7 2.7 7.7 June 1999 1.0 3.6 3.8 -1.2 1.9 1.3 7.1 4.6 6.4 5.3 3.7 8.3 8.3 -1.2 9.2 1.	March	4.3	2.5	-1.5	11.3	-1.6	-0.6	0.1	-1.3	0.7	1.0	1.3
TREND ESTIMATES		-5.2	-5.6	5.5	1.5	0.8	3.9	2.9	-3.6	-14.2	-1.5	1.1
Year to June 1997												
Year to June 1997	September	-4.2	-7.5	3.4	-1.6	2.3	-12.3	-2.2	2.3	3.1	-1.2	3.9
Year to June 1997 0.4 2.3 10.0 -1.8 2.0 -5.1 -1.7 6.0 1.1 1.7 2.7 June 1998 3.1 -0.2 5.1 12.3 4.4 -2.6 -7.6 0.1 3.7 1.2 7.7 June 1999 1.0 3.6 3.8 -1.2 1.9 13.7 4.6 6.4 5.3 3.7 8.3 1997-1998 September 1.4 -2.0 0.0 4.9 0.0 4.9 0.9 -2.1 -3.7 -0.6 2.1 -0.6 2.1 -0.1 2.3 December 1.5 -1.5 1.2 4.6 1.3 -2.1 -1.7 -1.4 0.6 0.2 1.6 March 0.7 1.4 2.5 1.9 1.1 0.2 0.9 -0.3 -0.6 0.8 1.1 June 0.0 2.0 1998-1999 September 0.5 2.4 0.4 -3.7 0.4 -3.7 0.4 5.5 1.5 3.7 3.7 3.7 1.4 2.6 December 0.7 1.3 -1.0 -0.4 -0.4 -0.4 5.6 1.1 2.4 3.8 1.1 2.0 March -0.6 -2.3 0.3 3.5 0.2 2.2 0.8 0.0 0.2 0.2 1.9 June -2.0 -4.2 2.8 3.4 0.5 -1.8 0.6 -1.0 -3.5 -0.5 2.0 1999-2000	• • • • • • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •		DEND ESTIM	IATES	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • • • • • • • • • • • • •
June 1997	Year to				,	LOTTIV	.,					
June 1998 3.1 -0.2 5.1 12.3 4.4 -2.6 -7.6 0.1 3.7 1.2 7.7 June 1999 1.0 3.6 3.8 -1.2 1.9 13.7 4.6 6.4 5.3 3.7 8.3 1997-1998 September 1.4 -2.0 0.0 4.9 0.9 -2.1 -3.7 -0.6 2.1 -0.1 2.3 December 1.5 -1.5 1.2 4.6 1.3 -2.1 -1.7 -1.4 0.6 0.2 1.6 March 0.7 1.4 2.5 1.9 1.1 0.2 0.9 -0.3 -0.6 0.8 1.1 June 0.0 2.8 2.4 -2.4 1.0 4.2 2.3 2.1 -0.4 1.3 2.0 1998-1999 September 0.5 2.4 0.4 -3.7 0.4 5.5 1.5 3.7 3.7 1.4 2.6 December 0.7 1.3 -1.0 -0.4 -0.4 5.6 1.1 2.4 3.8 1.1 2.0 March -0.6 -2.3 0.3 3.5 0.2 2.2 0.8 0.0 0.2 0.2 1.9 June -2.0 -4.2 2.8 3.4 0.5 -1.8 0.6 -1.0 -3.5 -0.5 2.0 1999-2000		0.4	2.3	10.0	-1.8	2.0	-5.1	-1.7	6.0	1.1	1.7	2.7
June 1999 1.0 3.6 3.8 -1.2 1.9 13.7 4.6 6.4 5.3 3.7 8.3 1997–1998 September 1.4 -2.0 0.0 4.9 0.9 -2.1 -3.7 -0.6 2.1 -0.1 2.3 December 1.5 -1.5 1.2 4.6 1.3 -2.1 -1.7 -1.4 0.6 0.2 1.6 March 0.7 1.4 2.5 1.9 1.1 0.2 0.9 -0.3 -0.6 0.8 1.1 June 0.0 2.8 2.4 -2.4 1.0 4.2 2.3 2.1 -0.4 1.3 2.0 1998-1999 September 0.5 2.4 0.4 -3.7 0.4 5.5 1.5 3.7 3.7 1.4 2.6 December 0.7 1.3 -1.0 -0.4 -0.4 5.6 1.1 2.4 3.8 1.1 2.0 March -0.6 -2.3 0.3 3.5 0.2 2.2 0.8 0.												
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March 0.7 1.4 2.5 1.9 1.1 0.2 0.9 -0.3 -0.6 0.8 1.1 June 0.0 2.8 2.4 -2.4 1.0 4.2 2.3 2.1 -0.4 1.3 2.0 1998-1999 September 0.5 2.4 0.4 -3.7 0.4 5.5 1.5 3.7 3.7 1.4 2.6 December 0.7 1.3 -1.0 -0.4 -0.4 5.6 1.1 2.4 3.8 1.1 2.0 March -0.6 -2.3 0.3 3.5 0.2 2.2 0.8 0.0 0.2 0.2 1.9 June -2.0 -4.2 2.8 3.4 0.5 -1.8 0.6 -1.0 -3.5 -0.5 2.0 1999-2000	•											
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1998–1999 September 0.5 2.4 0.4 -3.7 0.4 5.5 1.5 3.7 3.7 1.4 2.6 December 0.7 1.3 -1.0 -0.4 -0.4 5.6 1.1 2.4 3.8 1.1 2.0 March -0.6 -2.3 0.3 3.5 0.2 2.2 0.8 0.0 0.2 0.2 1.9 June -2.0 -4.2 2.8 3.4 0.5 -1.8 0.6 -1.0 -3.5 -0.5 2.0 1999-2000												
September 0.5 2.4 0.4 -3.7 0.4 5.5 1.5 3.7 3.7 1.4 2.6 December 0.7 1.3 -1.0 -0.4 -0.4 5.6 1.1 2.4 3.8 1.1 2.0 March -0.6 -2.3 0.3 3.5 0.2 2.2 0.8 0.0 0.2 0.2 1.9 June -2.0 -4.2 2.8 3.4 0.5 -1.8 0.6 -1.0 -3.5 -0.5 2.0 1999-2000		0.0	2.0	۷.4	2.7	1.0	7.2	2.0	2.1	0.4	1.5	2.0
December 0.7 1.3 -1.0 -0.4 -0.4 5.6 1.1 2.4 3.8 1.1 2.0 March -0.6 -2.3 0.3 3.5 0.2 2.2 0.8 0.0 0.2 0.2 1.9 June -2.0 -4.2 2.8 3.4 0.5 -1.8 0.6 -1.0 -3.5 -0.5 2.0 1999-2000		0.5	24	0.4	_3 7	0.4	5.5	15	3.7	3.7	1 4	2.6
March	•											
June -2.0 -4.2 2.8 3.4 0.5 -1.8 0.6 -1.0 -3.5 -0.5 2.0 1999-2000												
1999–2000												
		-2.0	7.4	2.0	5.4	0.5	1.0	0.0	1.0	5.5	0.5	2.0
		-2.7	-3.8	2.9	1.8	0.8	-3.6	0.2	-1.1	-5.2	-1.0	1.9

⁽a) Reference year for chain volume measures is 1997–1998.

MANUFA	ACTURING.									WHOLESALE TRADE
Food, beverage and tobacco	Textiles, clothing, footwear and leather	Wood and paper products	Printing, publishing and recorded media	Petroleum, coal,chemical and assoc. products	Non- metallic mineral product	Metal product	Machinery and equipment	Other manu- facturing	Total manu- facturing	Total wholesale
• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • • •	• • • • • • • • •
0.52	0.74	0.55	0.33	0.64	0.53	0.53	0.60	0.37	0.56	0.51
0.53	0.81	0.53	0.31	0.62	0.47	0.58	0.64	0.41	0.57	0.51
0.59	0.76	0.58	0.29	0.68	0.46	0.62	0.66	0.41	0.60	0.53
0.51	0.80	0.58	0.31	0.61	0.53	0.55	0.58	0.38	0.55	0.51
0.51	0.78	0.57	0.33	0.65	0.54	0.55	0.60	0.39	0.56	0.52
0.53	0.74	0.59	0.33	0.60	0.48	0.58	0.64	0.44	0.57	0.52
0.53	0.81	0.53	0.31	0.62	0.47	0.58	0.64	0.41	0.57	0.51
0.53	0.78	0.57	0.35	0.65	0.48	0.58	0.65	0.49	0.58	0.51
0.56	0.78	0.57	0.36	0.64	0.46	0.60	0.63	0.44	0.58	0.51
0.53	0.76	0.62	0.33	0.68	0.46	0.61	0.62	0.41	0.58	0.52
0.59	0.76	0.58	0.29	0.68	0.46	0.62	0.66	0.41	0.60	0.53
0.62	0.82	0.55	0.33	0.68	0.45	0.62	0.73	0.46	0.62	0.53
(a) Season	nally adjusted :	series.								
	Food, beverage and tobacco 0.52 0.53 0.59 0.51 0.51 0.53 0.53 0.53 0.56 0.53 0.59 0.62	Food, Textiles, beverage and footwear tobacco and leather 0.52 0.74 0.53 0.81 0.59 0.76 0.51 0.80 0.51 0.78 0.53 0.74 0.53 0.81 0.53 0.74 0.53 0.76 0.59 0.76 0.62 0.82	beverage and bacco clothing, footwear and leather products Wood and paper products 0.52 0.74 0.55 0.53 0.81 0.53 0.59 0.76 0.58 0.51 0.80 0.58 0.51 0.78 0.57 0.53 0.74 0.59 0.53 0.81 0.53 0.53 0.78 0.57 0.56 0.78 0.57 0.53 0.76 0.62 0.59 0.76 0.58	Food, beverage and polarical footwear and polarical footwear and polarical footwear and leather products Printing, publishing and recorded media 0.52 0.74 0.55 0.33 0.53 0.81 0.53 0.31 0.59 0.76 0.58 0.29 0.51 0.80 0.58 0.31 0.51 0.78 0.57 0.33 0.53 0.74 0.59 0.33 0.53 0.74 0.59 0.33 0.53 0.74 0.59 0.31 0.53 0.74 0.59 0.33 0.53 0.78 0.57 0.35 0.56 0.78 0.57 0.36 0.53 0.76 0.62 0.33 0.59 0.76 0.58 0.29 0.62 0.82 0.55 0.33	Food, beverage and footwear and footwear tobacco Textiles, beverage and footwear and paper and leather products Printing, publishing and recorded and assoc. media Petroleum, coal, chemical and recorded and assoc. products 0.52 0.74 0.55 0.33 0.64 0.53 0.81 0.53 0.31 0.62 0.59 0.76 0.58 0.29 0.68 0.51 0.80 0.58 0.31 0.61 0.51 0.78 0.57 0.33 0.65 0.53 0.74 0.59 0.33 0.60 0.53 0.81 0.53 0.31 0.62 0.53 0.74 0.59 0.33 0.60 0.53 0.74 0.59 0.31 0.62 0.53 0.78 0.57 0.35 0.62 0.53 0.76 0.62 0.33 0.68 0.59 0.76 0.58 0.29 0.68 0.62 0.82 0.55 0.33 0.68 0.62 0.82	Food, beverage and footwear tobacco Textiles, clothing, wood and leather Wood publishing publishing and recorded and assoc. products Printing, publishing and recorded and assoc. products Non-metallic mineral products 0.52 0.74 0.55 0.33 0.64 0.53 0.53 0.81 0.53 0.31 0.62 0.47 0.59 0.76 0.58 0.29 0.68 0.46 0.51 0.80 0.58 0.31 0.61 0.53 0.51 0.78 0.57 0.33 0.65 0.54 0.53 0.74 0.59 0.33 0.60 0.48 0.53 0.74 0.59 0.33 0.60 0.48 0.53 0.74 0.59 0.33 0.60 0.48 0.53 0.78 0.57 0.35 0.62 0.47 0.53 0.78 0.57 0.36 0.64 0.46 0.53 0.76 0.62 0.33 0.68 0.46 0.59 0.76 <	Food, beverage and footwear tobacco Textiles, clothing, beverage and footwear tobacco Wood and paper and leather products Printing, publishing and recorded and assoc. mineral and assoc. mineral product Metal product 0.52 0.74 0.55 0.33 0.64 0.53 0.53 0.53 0.81 0.53 0.31 0.62 0.47 0.58 0.59 0.76 0.58 0.29 0.68 0.46 0.62 0.51 0.80 0.58 0.31 0.61 0.53 0.55 0.51 0.78 0.57 0.33 0.65 0.54 0.55 0.53 0.74 0.59 0.33 0.60 0.48 0.58 0.53 0.74 0.59 0.33 0.60 0.48 0.58 0.53 0.74 0.59 0.33 0.60 0.48 0.58 0.53 0.78 0.57 0.35 0.62 0.47 0.58 0.56 0.78 0.57 0.36 0.64 0.46 0.60	Food, beverage and beverage and clothing, and tobacco Wood footwear and leather products Printing, publishing and recorded media Petroleum, coal, chemical and assoc. product Non-mineral metallic and assoc. product Machinery and equipment 0.52 0.74 0.55 0.33 0.64 0.53 0.53 0.60 0.53 0.81 0.53 0.31 0.62 0.47 0.58 0.64 0.59 0.76 0.58 0.29 0.68 0.46 0.62 0.66 0.51 0.80 0.58 0.31 0.61 0.53 0.55 0.60 0.53 0.74 0.59 0.33 0.65 0.54 0.55 0.60 0.53 0.74 0.59 0.33 0.65 0.54 0.55 0.60 0.53 0.74 0.59 0.33 0.60 0.48 0.58 0.64 0.53 0.78 0.57 0.35 0.62 0.47 0.58 0.64 0.53 0.78 0.57 0.35 0.65	Food, beverage and footwear and leather tobacco Textiles, beverage and footwear and leather by products Printing, publishing and recorded and assoc. media Petroleum, coal, chemical metallic and assoc. mineral product Metal product Machinery and equipment facturing Other manual product 0.52 0.74 0.55 0.33 0.64 0.53 0.53 0.60 0.37 0.53 0.81 0.53 0.31 0.62 0.47 0.58 0.64 0.41 0.59 0.76 0.58 0.29 0.68 0.46 0.62 0.66 0.41 0.51 0.80 0.58 0.31 0.61 0.53 0.55 0.60 0.38 0.51 0.78 0.57 0.33 0.65 0.54 0.55 0.60 0.39 0.53 0.74 0.59 0.33 0.60 0.48 0.58 0.64 0.44 0.53 0.74 0.59 0.33 0.60 0.48 0.58 0.64 0.44 0.53 0.78 0.57 0.35	Food, beverage and beverage and footwear and paper tobacco Textiles, beverage and footwear and paper and paper tobacco Printing, publishing and recorded and assoc. media Petroleum, coal, chemical metallic and assoc. mineral product Metal product Machinery and manumanum facturing Other manumanum facturing Total manumanum facturing 0.52 0.74 0.55 0.33 0.64 0.53 0.53 0.60 0.37 0.56 0.53 0.81 0.53 0.31 0.62 0.47 0.58 0.64 0.41 0.57 0.59 0.76 0.58 0.29 0.68 0.46 0.62 0.66 0.41 0.60 0.51 0.80 0.58 0.31 0.61 0.53 0.55 0.58 0.38 0.55 0.53 0.74 0.59 0.33 0.65 0.54 0.55 0.60 0.39 0.56 0.51 0.78 0.57 0.33 0.65 0.54 0.55 0.60 0.39 0.56 0.53 0.74 0.59 0.33 0.60

INTRODUCTION

1 This publication contains estimates of the book value of inventories, estimates of sales of goods and services by wholesalers and sales of goods manufactured or assembled by manufacturers in Australia. The series have been compiled from data collected by the Australian Bureau of Statistics (ABS) in its quarterly Survey of Inventories and Sales. The survey collects data from private businesses only.

SCOPE AND COVERAGE

- **2** The scope of the survey:
- includes the following industries (Australian and New Zealand Standard Industrial Classification 1993 [ANZSIC] Divisions and Subdivisions):

Mining (Division B)

Manufacturing (Division C)

Food, beverages and tobacco (21)

Textiles, clothing, footwear and leather (22)

Wood and paper products (23)

Printing, publishing and recorded media (24)

Petroleum, coal, chemical and associated products (25)

Non-metallic mineral products (26)

Metal products (27)

Machinery and equipment (28)

Other manufacturing (29)

Wholesale Trade (Division F)

Basic materials (45)

Machinery and motor vehicles (46)

Personal and household goods (47)

Retail Trade (Division G excluding 5322, 5323 and 5329)

Food (51)

Personal and household goods (52)

Motor vehicle retailing and services (53 excluding 5322, 5323 and 5329)

Other Selected Industries

Electricity and gas supply (36)

Accommodation, cafes and restaurants (Division H)

excludes the following industries:

Agriculture, forestry and fishing

Water supply, sewerage and drainage services

Construction

Transport and storage

Communication services

Finance and insurance

Property and business services

Government administration and defence

Education, health and community services

Cultural and recreational services

Personal and other services

• in addition the scope excludes public sector business units (i.e. all departments, authorities and other organisations owned and/or controlled by Commonwealth, State and Local Governments). Primary producer marketing boards are classified as public sector and are also excluded.

SURVEY METHODOLOGY

- **3** The survey is conducted by mail on a quarterly basis. It is based on a stratified random sample of approximately 7,500 private businesses selected from the ABS register of businesses. The sample is stratified by industry and number of employees. All business units with over 250 employees, and other statistically significant units, such as many joint venture partners, are included. The figures obtained from these businesses are also supplemented by adjustments for new businesses not yet included in the sample framework.
- **4** Respondents are asked to provide data on the same basis as their own management accounts. Where a selected business unit does not respond in a given survey, an estimate is substituted. If data are subsequently provided, the estimate is replaced with the reported data. Aggregates are calculated from original data using the 'number raised' estimation technique. Data are edited at both individual unit level and at aggregate level.
- **5** Adjustments are included in the estimates to allow for lags in processing new businesses to the ABS business register, and the omission of some businesses from the business register. The majority of businesses affected and to which the adjustments apply are small in size. The adjustments contributed 4.4% to the current quarter's estimate of reported inventories and 3.7% to reported sales. These adjustments were introduced in the June quarter 1997 publication and have been made back to the June quarter 1984. For further information see the June quarter 1997 publication or an Information Paper—*Improvements to ABS Economic Statistics* 1997 (Cat. no. 1357.0) issued on 22 August 1997.
- **6** Surveys are conducted in respect of each quarter and returns are completed during the 8 or 9 week period after the end of the quarter to which survey data relate e.g. December quarter survey returns are completed during January and February.
- **7** Prior to the June quarter 1996 survey, the survey frames and samples were revised annually to ensure that they remained representative of the survey population. Adjustments were made to the survey estimates each quarter to reflect changes in the size of the survey frame throughout the year. From the June quarter 1996 survey, the survey frames and samples are being revised each quarter. The aim is to further improve the quality of the survey estimates by selecting a sample which will be more representative of the business population. The timing of sample selection will now be consistent with other ABS surveys. This will lead to greater consistency when comparing data across these surveys.
- **8** With these revisions to the sample, some of the business units are rotated out of the survey and are replaced by others to spread the reporting workload equitably. The rate of rotation under quarterly sample selection is slightly higher than one quarter of the previous annual rate of rotation.
- **9** When frames and samples were updated annually some data would be revised as a consequence. No data revisions of this nature will be needed given quarterly updates to frames and samples. Data may be revised however on the basis of further processing.

TIMING OF SURVEY CYCLE

SAMPLE REVISION

STATISTICAL UNIT

CLASSIFICATION BY INDUSTRY

DESCRIPTION OF TERMS

CHAIN VOLUME MEASURES

- 10 This survey uses the management unit as the statistical unit. The management unit is the highest-level accounting unit within a business, having regard to industry homogeneity, for which accounts are maintained. In nearly all cases it coincides with the legal entity owning the business (i.e. company, partnership, trust, sole operator, etc.). In the case of large diversified businesses, however, there may be more than one management unit, each coinciding with a 'division' or 'line of business'. A division or line of business is defined where separate and comprehensive accounts are compiled for it. Prior to 1989, the survey was on a different business unit basis. Further details are available on request.
- **11** The Australian and New Zealand Standard Industrial Classification (ANZSIC) has been developed for use in both countries for the production and analysis of industry statistics. It replaces the Australian Standard Industrial Classification (ASIC) and the New Zealand Standard Industrial Classification (NZSIC).
- **12** For more information, users are referred to *Australian & New Zealand Standard Industrial Classification*, *1993*, *ANZSIC*, ABS (Cat. no. 1292.0) and Statistics New Zealand (Cat. no. 19.005.0092).
- **13** In order to classify inventories and sales data by industry, each statistical unit (as defined above) is classified to the Australian and New Zealand Standard Industrial Classification (ANZSIC) industry in which it *mainly* operates.
- **14** All of the inventories and sales of each statistical unit are classified to that unit's industry even though it may have activities in other industries.
- **15** *Manufacturers' Sales*. All sales of goods manufactured by the business or manufactured for it on commission. Excludes commission earned by the business for manufacturing work done on customers' materials and sales of goods not manufactured (e.g. merchanted goods) by the business.
- **16** *Wholesale Trade Sales.* Sales of goods and services by businesses classified to the Wholesale Trade Industry.
- **17** *Inventories*. All inventories of materials etc., work in progress and finished goods owned by the business, whether held at locations of the business or elsewhere.
- **18** The chain volume measures appearing in this publication are annually reweighted chain Laspeyres indexes referenced to current price values in the chosen reference year (currently 1997–1998). Chain volume measures were introduced in September quarter 1998, replacing constant price estimates. Chain volume measures can be thought of as current price values re-expressed in (i.e. based on) the prices of the previous year and linked together to form continuous time series. Each year's quarter-to-quarter growth rates in the chain volume series are based on the prices of the previous year, except for those of the quarters of the latest incomplete year which are based upon the second most recent financial year. With each release of the June quarter of this publication, a new base year will be introduced and the reference year will be advanced one year to coincide with it. This means that with the release of the June quarter 1999 issue of this publication, the chain volume measures for 1998–1999 have 1997–1998 (the previous financial year) as their base year rather than 1996–1997, and the reference year is 1997–1998. A change in reference year changes levels but not growth rates.

CHAIN VOLUME MEASURES continued 19 Chain volume measures are not generally additive. In other words, component chain volume measures do not, in general, sum to a total in the way original current price components do. For inventories and sales this means that the original chain volume estimates for industry groups will not add to total inventories and sales for Australia. However, by using the latest base year as the reference year, non-additivity does not exist for the quarters following the reference year and is relatively small for the quarters in the reference year and those immediately preceding it. For further information on chain volume measures refer to the information paper Introduction of Chain Volume Measures in the Australian National Accounts (Cat. no. 5248.0).

RELIABILITY OF THE ESTIMATES

20 Two types of error are possible in an estimate based on a sample survey: sampling error and non-sampling error. Sampling error is explained and quantified on pages 21 and 22.

Non-sampling error arises from inaccuracies in collecting, recording and processing the data. The major errors of concern and which may affect the data are:

- misreporting of data by respondents; and
- deficiencies in the register of economic units, particularly in respect of small

Every effort is made to minimise the non-sampling error by careful design of questionnaires, efficient operating procedures, and appropriate methodology.

SEASONAL ADJUSTMENT

- **21** The quarterly inventories and sales series in this publication are affected to some extent by seasonal influences and it is useful to recognise and take account of this element of variation.
- **22** Seasonal adjustment may be carried out by various methods and the results may vary slightly depending on the procedure adopted. Accordingly, seasonally adjusted statistics are only indicative and should not be regarded as in any way definitive. In interpreting seasonally adjusted data it is important therefore to bear in mind the methods by which they have been derived and the limitations to which the methods used are subject.
- **23** Seasonal adjustment is a means of reassessing the estimated effects of normal seasonal variations for the series so that the effects of other influences can be more clearly recognised.
- **24** In the seasonal adjustment of the series, account has been taken of both normal seasonal factors and 'trading' day effects (arising from the varying length of each quarter) and the varying numbers of Sundays, Mondays, Tuesdays etc. in the quarter. Seasonal adjustment does not remove from the series the effect of irregular or non-seasonal influences (e.g. change in interest rates).
- 25 At least once each year the seasonally adjusted series are revised to take account of the latest available data. The most recent reanalysis takes into account data collected up to and including the March quarter 1999 survey. Data for periods after March 1999 are seasonally adjusted on the basis of extrapolation of historical patterns. The nature of the seasonal adjustment is such that the magnitude of some revisions resulting from reanalysis may be quite significant especially for data for more recent quarters. Care should be exercised when interpreting quarter to quarter movements in the seasonally adjusted series in the publication, particularly for recent quarters.

SEASONAL ADJUSTMENT continued

- **26** It should be noted that the seasonally adjusted figures necessarily reflect the sampling and other errors to which the original figures are subject.
- **27** Details of the seasonal adjustment methods used for inventories and sales, together with selected measures of variability for these series are available on request.

TREND ESTIMATES

28 The trend estimates are derived by applying a 7-term Henderson moving average to the seasonally adjusted series. The 7-term Henderson average (like all Henderson averages) is symmetric, but as the end of a time series is approached, asymmetric forms of the average are applied. Unlike the weights of the standard 7-term Henderson moving average, the weights employed here have been tailored to suit the particular characteristics of individual series. While the asymmetric weights enable trend estimates for recent quarters to be produced, it does result in revisions to the estimates for the most recent three quarters as additional observations become available. There may also be revisions because of changes in the original data and as a result of the re-estimation of the seasonal factors. For further information contact the Assistant Director, Time Series Analysis on (02) 6252 6076.

COMPARISON WITH OTHER ABS

- **29** The data collected in the Survey of Inventories and Sales are used to compile estimates of the increase in book value of non-farm inventories in the quarterly and annual national accounts. For further details see *Australian National Accounts: Concepts, Sources and Methods* (Cat. no. 5216.0).
- **30** The statistics shown for the movement in the book value of inventories in this publication will differ from corresponding data for private non-farm inventories shown in the national accounts publications because the national accounts estimates include estimates for the construction and transport industries.

RELATED PUBLICATIONS

- **31** Users may also wish to refer to the following publications:
- Australian Business Expectations (Cat. no. 5250.0)
- Australian National Accounts: Concepts, Sources and Methods (Cat. no. 5216.0)
- Australian National Accounts: National Income, Expenditure and Product (Cat. no. 5206.0)
- Business Operations and Industry Performance, Australia (Cat. no. 8140.0).
- Company Profits, Australia (Cat. no. 5651.0)
- Information Paper: Australian National Accounts, Introduction of Chain Volume and Price Indexes (Cat. no. 5248.0)
- Manufacturing Production, Australia (Cat. no. 8301.0)
- Private New Capital Expenditure and Expected Expenditure, Australia (Cat. no. 5625.0)
- State Estimates of Private New Capital Expenditure (Cat. no. 5646.0)
- **32** Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (Cat. no. 1101.0). The ABS also issues on Tuesdays and Fridays a *Release Advice* (Cat. no. 1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

UNPUBLISHED DATA

33 In addition to the data contained in this and related publications, more detailed industry information may be made available on request. Data are available at the ANZSIC Group (i.e. 3 digit) level for inventories and manufacturers' sales.

SYMBOLS AND OTHER USAGES

ANZSIC Australian and New Zealand Standard Industrial Classification (Cat. no. 1292.0) 1993 edition

STANDARD ERRORS

INTRODUCTION

The estimates in this publication are based on a sample drawn from units in the surveyed population. Because the entire population is not surveyed, the published estimates are subject to sampling error. The most common way of quantifying such sampling error is to calculate the standard error for the published estimate or statistic.

LEVEL ESTIMATES

To illustrate, let us say that the published level estimate for total inventories is \$77,000m and the calculated standard error in this case is \$965m. The standard error is then used to interpret the level estimate of \$77,000m.

For instance, the standard error of \$965m indicates that:

- There are approximately two chances in three that the real value falls within the range \$76,035m to \$77,965m (\$77,000m ± \$965m)
- There are approximately nineteen chances in twenty that the real value falls within the ranges \$75,070m and \$78,930m (\$77,000m ± \$1,930m)

The real value in this case is the result we would obtain if we could enumerate the total population.

The following table shows the standard errors for national quarterly level estimates. These standard errors are based on a smoothed average of inventories and sales estimates.

• • • • • • • • • •	Inventories \$m	Sales \$m
Mining	88	n.a.
Manufacturing	438	865
Wholesale trade	667	1 536
Retail trade	530	n.a.
Other	75	n.a.
Total selected industries	965	n.a.

STANDARD ERRORS

MOVEMENT ESTIMATES

The following example illustrates how to use the standard error to interpret a movement estimate. Let us say that one quarter the published level estimate for total inventories is \$77,000m, and the next quarter the published level estimate is \$79,000m. In this example the calculated standard error for the movement estimate is \$754m. The standard error is then used to interpret the published movement estimate of +\$2,000m.

For instance, the standard error of \$754m indicates that:

- There are approximately two chances in three that the real movement over the two quarter period falls within the range 1.246m to 2.754m ($2.000m \pm 754m$)
- There are approximately nineteen chances in twenty that the real movement falls within the range \$492m to \$3,508m ($2,000m \pm 1,508m$)

The following table shows the standard errors for national quarterly movement estimates. These standard errors are based on a smoothed average of inventories and sales estimates.

	Inventories	Sales
	\$m	\$m
Mining	98	n.a.
Manufacturing	329	682
Wholesale trade	490	1 309
Retail trade	449	n.a.
Other	92	n.a.
Total selected industries	754	n.a.

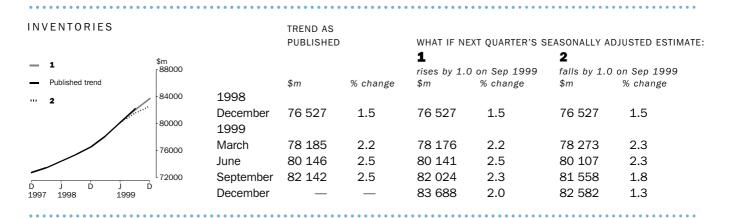
EFFECT OF NEW SEASONALLY ADJUSTED ESTIMATES ON TREND ESTIMATES

TREND REVISIONS

The examples in the tables below show two scenarios and the consequent revisions to previous trend estimates of inventories owned by private businesses and manufacturers' and wholesalers' sales.

- **1** The December quarter seasonally adjusted estimate of chain volume measures is higher than the September quarter estimate by the percentage shown.
- **2** The December quarter seasonally adjusted estimate of chain volume measures is lower than the September quarter estimate by the percentage shown.

The percentages chosen are the long term average movements, without regard to sign, in the seasonally adjusted series.



MANUFACTURERS' SALES		TREND AS PUBLISHED		WHAT IF NE	EXT QUARTER'S S	EASONALLY A	DJUSTED ESTIMATE:
- 1 \$m 56000				1 rises by 1.4	4 on Sep 1999	2 falls by 1.4	l on Sep 1999
Published trend		\$ <i>m</i>	% change	\$m	% change	\$m	% change
2	1998						
52000	December 1999	52 382	1.1	52 382	1.1	52 382	1.1
50000	March	52 506	0.2	52 511	0.2	52 595	0.4
55555	June	52 236	-0.5	52 240	-0.5	52 211	-0.7
	September	51 737	-1.0	51 956	-0.5	51 548	-1.3
D J D J D 1997 1998 1999	December	_	_	51 817	-0.3	50 850	-1.4

WHOLESALE TRADE	SALES		TREND AS PUBLISHED		WHAT IF NEXT	Γ QUARTER'S SE	ASONALLY ADJU	JSTED ESTIMATE:
	\$m 59000				1 rises by 1.7 (on Sep 1999	2 falls by 1.7 or	n Sep 1999
Published trend			\$m	% change	\$m	% change	\$m 9	% change
2	55000	1998						
The state of the s	-51000	December 1999	47 749	2.0	47 749	2.0	47 749	2.0
	47000	March	48 635	1.9	48 605	1.8	48 707	2.0
		June	49 630	2.0	49 641	2.1	49 604	1.8
, , , , , ,	43000	September	50 582	1.9	50 790	2.3	50 297	7.2
D J D J D 1997 1998 1999		December	_	_	51 906	2.2	50 774	0.9

SELF-HELP ACCESS TO STATISTICS

CPI INFOLINE For current and historical Consumer Price Index data,

call 1902 981 074 (call cost 75c per minute).

DIAL-A-STATISTIC For the latest figures for National Accounts, Balance of

Payments, Labour Force, Average Weekly Earnings, Estimated Resident Population and the Consumer Price Index call 1900 986 400 (call cost 75c per minute).

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POST Client Services, ABS, PO Box 10, Belconnen ACT 2616

EMAIL client.services@abs.gov.au



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