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Australian  
Bureau of  
Statistics

CATALOGUE NO. 8501.0

EMBARGOED UNTIL 11.30 A.M. 12 AUGUST 1991

**RETAIL TRADE  
AUSTRALIA, JUNE 1991**



*NOTE: This publication contains revisions to the seasonally adjusted series for Australian and State totals as a result of the annual seasonal reanalysis. The Australian and State industry trend series will be revised in the July issue as it was not possible to complete the reanalysis for these series without delaying the release of the June issue.*

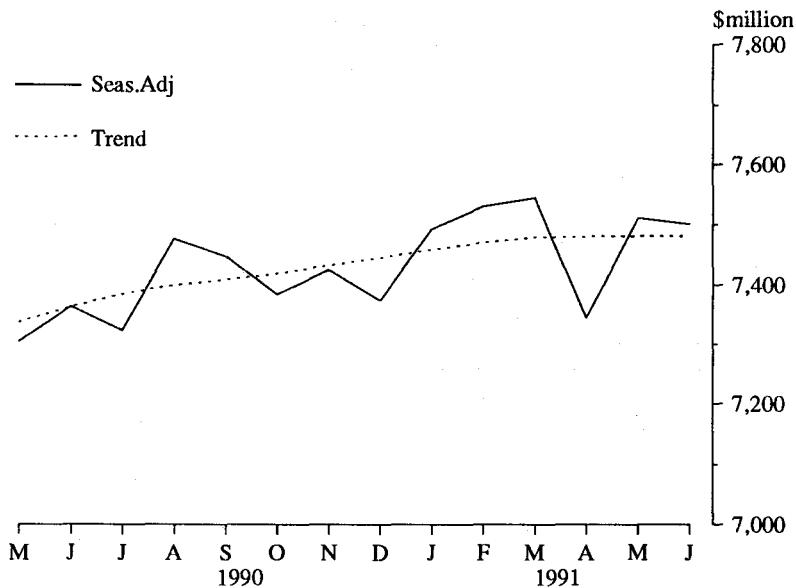
**SUMMARY OF FINDINGS**

**Australian estimates**

The seasonally adjusted estimate of turnover for retail and selected service establishments fell by 0.1 per cent in June 1991. This follows a rise of 2.3 per cent in May and a fall in April of 2.7 per cent. In original terms the estimate of turnover for retail and selected service establishments fell 6.4 per cent to \$7052.1m.

The trend estimates show that there has been no growth over the last three months while the annual growth rate (June 1991 over June 1990) has now dropped to a very low 1.6 per cent.

**CHART 1: TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS, MONTHLY ESTIMATES, AUSTRALIA**

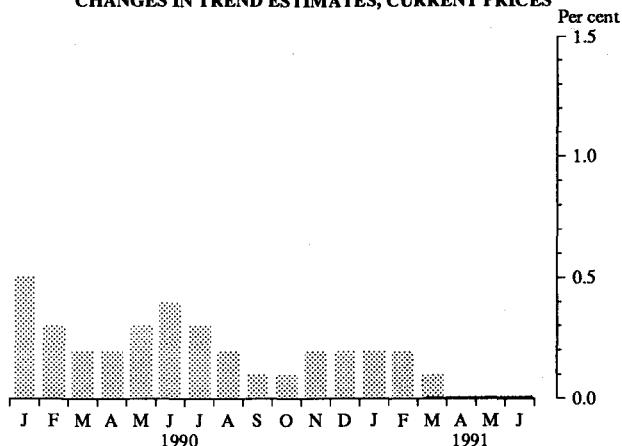


In constant price seasonally adjusted terms turnover in the June quarter 1991 fell by 1.0 per cent over the March quarter 1991 and is 2.2 per cent lower than the June quarter 1990.

**INQUIRIES**

- for further information about statistics in this publication and the availability of related unpublished statistics, contact Bill Powell on Canberra (06) 252 6132 or any ABS office.
- for further information about constant price estimates contact Alan Tryde on Canberra (06) 252 6801.
- for information about other ABS statistics and services please refer to the back page of this publication.

**CHART2: TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS, AUSTRALIA, MONTHLY PERCENTAGE CHANGES IN TREND ESTIMATES, CURRENT PRICES**



### Industry trends

Growth in the Grocery industry remains very weak with the trend estimates increasing by an average of 0.1 per cent per month for the three months ending June 1991. Hotels, liquor stores and licensed clubs are now showing growth averaging 0.3 per cent per month for the last three months. Clothing and fabric stores and Department stores are in decline, averaging falls of 0.4 per cent and 0.6 per cent respectively over the three month period ending June 1991.

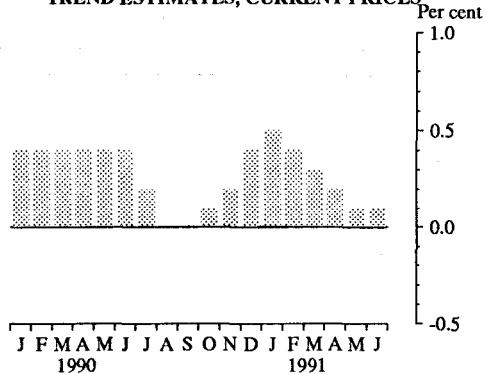
Of the remaining industries Domestic hardware/jewellers, Floorcovering stores, Pharmacies and Newsagents show strong growth while Footwear stores and Electrical goods stores are in decline.

### PERCENTAGE CHANGE IN TREND ESTIMATES OF TURNOVER

Industry	Average monthly increase for 3 months to June 1991	Average monthly increase for 12 months to June 1991
Grocers	0.1	0.6
Hotels, liquor stores, licensed clubs	0.3	-0.1
Department and general stores	-0.6	-0.2
Clothing and fabrics stores	-0.4	0.2
Total all industries	0.0	0.1

**CHART3: TURNOVER OF RETAIL ESTABLISHMENTS, AUSTRALIA, MONTHLY PERCENTAGE CHANGES IN TREND ESTIMATES, CURRENT PRICES**

Analysis of the *retail only* industries shows growth averaging 0.1 per cent per month over the last 3 months. Over the past year (June 1991 over June 1990) the *retail* industries have experienced growth in turnover of 2.6 per cent, which is 1.0 percentage points higher than the all industries growth rate over the same period.

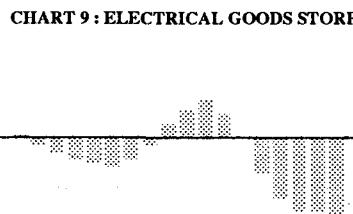
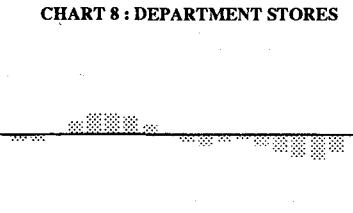
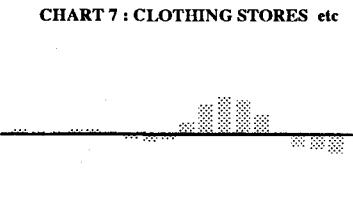
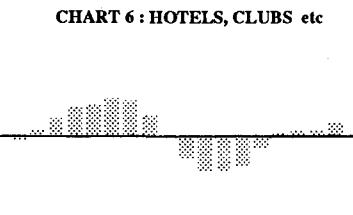
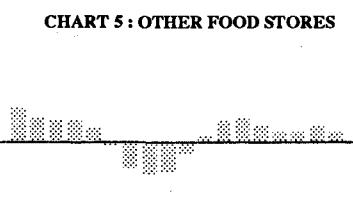
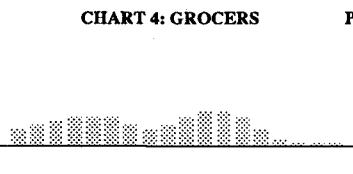


### State trends

The State trend estimates shows that growth in turnover for retail and selected service establishments is very weak in New South Wales and Western Australia and is in decline in Victoria, Queensland, South Australia and Tasmania. The Australian Capital Territory is showing moderate growth but the rate of increase appears to be slowing.

**TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS, AUSTRALIA**

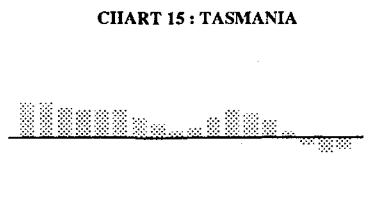
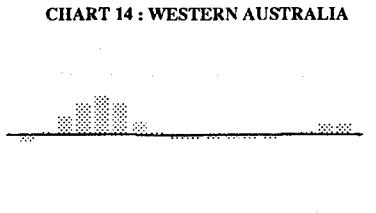
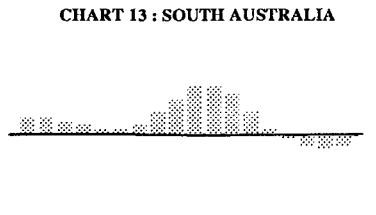
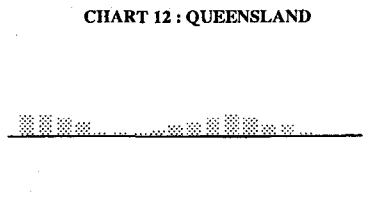
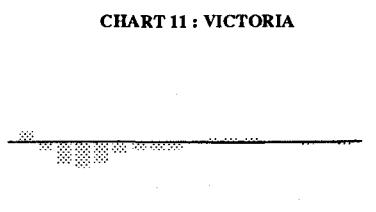
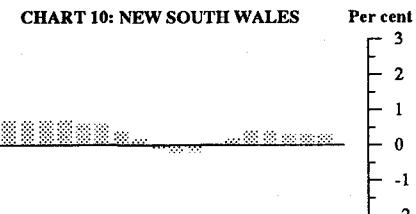
**TREND ESTIMATES, MONTHLY CHANGES  
CURRENT PRICES, SELECTED INDUSTRIES**  
Percentage change from preceding month



J F M A M J J A S O N D J F M A M J  
1990 1991

**TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS**

**TREND ESTIMATES, MONTHLY CHANGES  
CURRENT PRICES, STATES**  
Percentage change from preceding month



J F M A M J J A S O N D J F M A M J  
1990 1991

TABLE 1. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, AUSTRALIA (a)

Month	Original		Seasonally adjusted		Trend estimates (b)		
	\$m	% change from preceding month	% change from corresponding month of previous year	\$m	% change from preceding month	\$m	% change from preceding month
<i>1990 —</i>							
April	6,884.6	-4.3	6.4	7,384.1	1.8	7,316.9	0.2
May	7,294.5	6.0	7.8	7,304.2	-1.1	7,338.3	0.3
June	7,160.1	-1.8	5.1	7,364.2	0.8	7,364.0	0.4
July	6,974.6	-2.6	4.0	7,323.8	-0.5	7,386.3	0.3
August	7,282.4	4.4	6.7	7,476.5	2.1	7,401.1	0.2
September	7,064.6	-3.0	0.9	7,447.7	-0.4	7,409.7	0.1
October	7,431.2	5.2	6.2	7,383.6	-0.9	7,420.3	0.1
November	7,779.8	4.7	3.8	7,425.9	0.6	7,433.6	0.2
December	9,745.5	25.3	0.1	7,374.0	-0.7	7,446.3	0.2
<i>1991 —</i>							
January	7,254.5	-25.6	4.3	7,492.5	1.6	7,459.6	0.2
February	6,616.4	-8.8	3.2	7,530.7	0.5	7,472.1	0.2
March	7,270.2	9.9	1.0	7,545.0	0.2	7,480.1	0.1
April	r 7,082.5	-2.6	2.9	7,344.5	-2.7	7,482.2	0.0
May	r 7,532.6	6.4	3.3	7,511.4	2.3	7,482.4	0.0
June	7,052.1	-6.4	-1.5	7,500.9	-0.1	7,484.2	0.0
<i>Standard error (c) of</i>							
Latest month	73.4						
Change from previous month	35.9	0.5					

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Subject to revision - see from paragraph 21 of Explanatory Notes. (c) See paragraphs 9 to 13 of Explanatory Notes.

TABLE 2. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
QUARTERLY ESTIMATES, AUSTRALIA (a)

Quarter	Original		Seasonally adjusted					
	\$m	% change from preceding quarter	% change from corresponding quarter of previous year	\$m	% change from preceding quarter	% change from corresponding quarter of previous year		
AT CURRENT PRICES								
<i>1990 —</i>								
June	21,339.2	3.8	6.4	22,052.5	1.2	6.7		
September	21,321.6	-0.1	3.8	22,248.0	0.9	4.7		
December	24,956.5	17.0	3.0	22,183.5	-0.3	2.7		
<i>1991 —</i>								
March	21,141.1	-15.3	2.8	22,568.2	1.7	3.6		
June	21,667.2	2.5	1.5	22,356.8	-0.9	1.4		
AT CONSTANT (AVERAGE 1984-85) PRICES								
<i>1990 —</i>								
June	14,873.6	2.0	1.0	15,387.6	-0.1	1.3		
September	14,798.4	-0.5	-0.4	15,458.1	0.5	0.4		
December	17,115.1	15.7	-1.4	15,228.1	-1.5	-1.7		
<i>1991 —</i>								
March	14,284.7	-16.5	-2.1	15,196.9	-0.2	-1.3		
June	14,564.1	2.0	-2.1	15,045.8	-1.0	-2.2		

(a) Excludes motor vehicle dealers, petrol stations, etc.



TABLE 3. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES BY INDUSTRY, AT CURRENT PRICES, AUSTRALIA (a)—continued

Month	Grocers, confectioners, tobacc omists	Butchers	Hotels, liquor stores, licensed clubs	Cafes and restau rants	Clothing and fabrics stores	Depart ment and general stores	Footwear stores	Domestic hardware stores, jewellers	Elect rical goods stores	Furn iture stores	Floor cover ings stores	Pharma cies	News agents	Other stores	Total
<i>1990—</i>															
April	0.8	0.8	0.6	0.8	n.p.	0.2	0.4	-0.8	0.4	-0.6	0.1	0.2	0.4	n.p.	0.2
May	0.8	0.4	0.4	0.9	n.p.	0.2	0.6	-0.3	0.4	-0.7	0.1	0.0	0.6	0.2	n.p.
June	0.8	0.1	-0.1	1.1	n.p.	0.1	0.6	-0.2	0.2	-0.8	-0.1	0.0	0.9	0.1	n.p.
July	0.6	-0.1	-0.7	1.0	n.p.	-0.1	0.5	-0.1	-0.5	-0.6	-0.7	0.0	1.4	-0.2	n.p.
August	0.5	-0.6	-0.9	0.6	n.p.	-0.2	0.3	-1.6	-0.2	-1.4	-0.6	1.4	-0.7	n.p.	0.2
September	0.6	-1.1	-0.8	0.0	n.p.	-0.1	0.0	1.2	-2.3	0.4	-1.6	-0.8	0.8	-1.7	n.p.
October	0.8	-1.5	-0.3	-0.6	n.p.	0.4	-0.2	2.0	-2.3	0.8	-1.3	-1.4	-0.1	-2.3	n.p.
November	1.0	-1.6	0.2	-1.0	n.p.	0.9	-0.3	2.4	-1.5	1.1	-0.2	-1.9	-0.8	-2.0	n.p.
December	1.0	-1.1	0.6	-1.0	n.p.	1.1	-0.2	2.2	-0.2	0.7	0.7	-1.9	-1.0	-1.1	n.p.
<i>1991—</i>															
January	0.8	-0.4	0.7	-0.8	n.p.	1.0	-0.1	1.5	1.3	0.0	1.5	-1.5	-0.2	0.1	n.p.
February	0.5	0.0	0.5	-0.3	n.p.	0.6	-0.3	0.1	2.2	-1.0	1.9	-0.3	1.4	1.1	n.p.
March	0.2	0.2	0.3	0.1	n.p.	0.1	-0.5	-1.0	2.4	-1.7	1.7	1.0	1.6	1.6	n.p.
April	0.1	0.1	0.3	0.2	n.p.	-0.3	-0.6	-1.4	2.0	-2.1	1.3	1.3	3.3	1.5	n.p.
May	0.1	-0.1	0.5	0.2	n.p.	-0.4	-0.7	-1.5	1.7	-2.1	1.0	1.3	3.0	1.4	n.p.
June	0.1	-0.1	0.3	0.4	n.p.	-0.5	-0.5	-2.0	1.5	-2.2	0.5	1.3	2.7	1.4	n.p.

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Month	Grocers, confectioners, tobacc omists	Butchers	Hotels, liquor stores, licensed clubs	Cafes and restau rants	Clothing and fabrics stores	Depart ment and general stores	Footwear stores	Domestic hardware stores, jewellers	Elect rical goods stores	Furn iture stores	Floor cover ings stores	Pharma cies	News agents	Other stores	Total
<i>1990—</i>															
April	8.2	9.1	14.4	5.8	n.p.	-3.0	5.0	9.3	-11.3	9.1	4.8	2.2	15.4	3.8	n.p.
May	8.2	9.3	13.7	4.9	n.p.	-1.4	4.9	6.2	-10.9	6.9	4.9	1.4	14.9	3.0	n.p.
June	8.1	9.8	12.4	4.5	n.p.	0.0	4.4	3.9	-10.0	4.3	5.2	0.3	14.7	2.1	n.p.
July	7.8	10.6	10.5	4.5	n.p.	0.6	3.6	2.4	-9.4	1.8	5.0	-0.2	14.8	1.4	n.p.
August	7.4	10.9	8.0	4.6	n.p.	0.7	2.6	1.7	-9.3	-0.1	3.5	-0.3	14.8	0.6	n.p.
September	7.4	10.0	5.5	4.5	n.p.	0.8	1.8	2.1	-9.6	-1.1	0.9	-0.5	14.1	-0.8	n.p.
October	7.8	7.6	3.5	4.0	n.p.	1.1	1.4	3.4	-10.0	-1.3	-1.7	-1.4	12.5	-2.7	n.p.
November	8.5	4.0	2.1	3.2	n.p.	1.8	1.2	4.8	-9.9	-0.9	-3.4	-3.3	10.4	-4.7	n.p.
December	9.2	0.5	1.4	2.3	n.p.	2.7	1.4	6.1	-8.8	-0.5	-3.6	-4.7	8.0	-6.0	n.p.
<i>1991—</i>															
January	9.5	-2.2	1.1	1.6	n.p.	3.5	1.4	7.0	-6.5	-0.6	-2.5	-6.4	6.3	-6.2	n.p.
February	9.4	-4.0	1.0	1.1	n.p.	4.0	1.4	7.4	-4.0	-1.4	-0.9	-7.4	6.4	-5.6	n.p.
March	8.8	-5.0	0.7	0.6	n.p.	4.0	0.9	7.4	-1.6	-2.7	0.6	-7.0	8.3	-4.6	n.p.
April	8.0	-5.6	0.4	0.1	n.p.	3.6	-0.2	6.7	0.1	-4.2	1.9	-6.0	11.1	-3.5	n.p.
May	7.3	-6.1	0.5	-0.7	n.p.	3.0	-1.5	5.5	1.4	-5.5	2.8	-4.7	13.8	-2.4	n.p.
June	6.6	-6.2	0.9	-1.3	n.p.	2.4	-2.6	3.6	2.6	-6.9	3.4	-3.5	15.7	-1.2	n.p.

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) The standard error of the estimates for the latest month and of the latest month from the preceding month - see paragraphs 9 to 13 of Explanatory Notes. (c) Subject to revision - see paragraph 21 of Explanatory Notes.

TABLE 4. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
QUARTERLY ESTIMATES BY INDUSTRY, AT CONSTANT (AVERAGE 1984—85) PRICES, AUSTRALIA (a)

Quarter	Grocers, confec- tioners, tobacc- onists	Hotels, liquor stores, licensed clubs	Cafes, and fabrics	Clothing and fabrics	Depart- ment and general Footwear	Domestic hardware stores, jewellers	Elec- trical goods	Furn- iture stores	Floor cover- ings	Pharma- cies	News- agents	Other stores	Total			
	Butchers	Other food stores	rest- aurants	stores	stores	stores	stores	stores	stores	stores	stores	stores	\$million			
<b>ORIGINAL</b>																
1990 —																
June	4,129.2	411.9	921.8	1,895.6	715.5	1,096.4	1,664.6	217.8	445.4	1,109.2	303.6	125.3	612.1	486.0	739.2	14,873.6
September	4,181.4	421.2	945.8	1,925.1	730.4	1,030.0	1,528.9	195.6	445.7	1,067.1	308.7	124.6	630.5	498.4	765.0	14,798.4
December	4,570.7	430.0	997.1	2,164.1	766.7	1,243.8	2,237.4	225.6	636.6	1,248.3	323.3	127.9	701.1	506.8	935.7	17,115.1
1991 —																
March	4,335.9	377.7	912.0	1,866.6	685.1	917.1	1,367.8	197.1	457.0	1,016.0	287.2	100.9	573.2	476.7	714.4	14,284.7
June	4,267.1	392.5	923.7	1,774.5	672.9	1,073.7	1,554.7	221.5	436.8	1,024.5	298.9	117.0	649.1	456.0	701.2	14,564.1
<b>SEASONALLY ADJUSTED ESTIMATES</b>																
1990 —																
June	4,218.1	422.7	951.8	2,007.0	n.p.	1,093.9	1,736.3	206.1	519.3	1,124.4	319.0	129.4	634.7	511.3	n.p.	15,387.6
September	4,300.6	425.7	971.9	2,028.6	n.p.	1,067.3	1,719.8	205.7	519.3	1,104.1	311.8	121.0	637.1	516.9	n.p.	15,458.1
December	4,331.0	405.0	946.8	1,953.4	n.p.	1,059.0	1,701.0	210.2	471.5	1,106.2	287.9	117.7	638.9	471.2	n.p.	15,228.1
1991 —																
March	4,420.8	392.1	911.7	1,886.4	n.p.	1,087.4	1,673.6	216.1	502.2	1,120.8	310.4	110.7	613.1	478.5	n.p.	15,196.9
June	4,356.8	403.1	954.2	1,877.0	n.p.	1,071.6	1,619.5	209.2	509.2	1,039.5	314.9	121.0	673.7	479.9	n.p.	15,045.8
Percentage change from preceding quarter																
1990 —																
June	0.7	1.5	-1.4	0.8	n.p.	0.4	1.7	-1.2	-2.0	-1.7	-1.2	2.6	2.8	-3.9	n.p.	-0.1
September	2.0	0.7	2.1	1.1	n.p.	-2.4	-1.0	-0.2	0.0	-1.8	-2.3	-6.5	0.4	1.1	n.p.	0.5
December	0.7	-4.9	-2.6	-3.7	n.p.	-0.8	-1.1	2.2	-9.2	0.2	-7.7	-2.7	0.3	-8.8	n.p.	-1.5
1991 —																
March	2.1	-3.2	-3.7	-3.4	n.p.	2.7	-1.6	2.8	6.5	1.3	7.8	-5.9	-4.0	1.5	n.p.	-0.2
June	-1.4	2.8	4.7	-0.5	n.p.	-1.5	-3.2	-3.2	1.4	-7.3	1.4	9.3	9.9	0.3	n.p.	-1.0
Percentage change from corresponding quarter of previous year																
1990 —																
June	2.2	3.1	9.2	-2.3	n.p.	-5.5	1.8	5.0	-12.6	6.0	-5.6	-4.6	9.9	-3.1	n.p.	1.3
September	2.6	8.0	11.2	-1.9	n.p.	-3.7	-2.0	1.3	-9.4	-0.6	-2.7	-11.2	7.9	-4.1	n.p.	0.4
December	3.4	2.6	1.0	-3.8	n.p.	-3.2	-3.4	0.2	-11.5	-2.2	-13.0	-5.2	4.1	-9.8	n.p.	-1.7
1991 —																
March	5.6	-5.9	-5.6	-5.2	n.p.	-0.2	-2.0	3.5	-5.3	-2.0	-3.8	-12.2	-0.7	-10.1	n.p.	-1.3
June	3.3	-4.6	0.3	-6.5	n.p.	-2.0	-6.7	1.5	-1.9	-7.6	-1.3	-6.5	6.1	-6.1	n.p.	-2.2

(a) Excludes motor vehicle dealers, petrol stations, etc.

TABLE 5. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, AUSTRALIA, STATES AND TERRITORIES (a)

Month	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory	Australia
	ORIGINAL \$ million								
<i>1990 —</i>									
April	2,467.5	1,749.6	1,130.9	553.7	623.4	172.1	67.3	120.1	6,884.6
May	2,615.0	1,826.2	1,225.5	584.9	653.0	185.1	74.8	130.0	7,294.5
June	2,550.8	1,773.8	1,228.5	566.5	653.2	180.1	77.4	129.8	7,160.1
July	2,519.6	1,710.3	1,183.0	553.5	626.3	173.0	82.1	126.8	6,974.6
August	2,622.3	1,781.3	1,255.7	578.2	649.0	183.8	83.5	128.7	7,282.4
September	2,571.0	1,718.3	1,205.9	554.5	631.5	177.5	79.3	126.6	7,064.6
October	2,692.1	1,812.3	1,268.3	595.4	663.7	187.3	80.6	131.5	7,431.2
November	2,816.8	1,898.3	1,306.7	652.7	691.0	199.1	77.9	137.4	7,779.8
December	3,490.0	2,459.5	1,616.6	796.2	879.3	245.3	87.5	171.0	9,745.5
<i>1991 —</i>									
January	2,589.6	1,779.6	1,255.6	603.6	644.9	190.7	67.0	123.5	7,254.5
February	2,369.3	1,627.9	1,126.3	541.1	591.2	177.0	65.3	118.3	6,616.4
March	2,599.0	1,777.9	1,222.2	612.4	650.1	197.8	74.4	136.4	7,270.2
April	2,546.1	1,733.9	1,186.4	590.4	635.8	180.5	72.8	136.5	7,082.5
May	r 2,718.1	1,839.3	1,264.8	627.3	671.1	190.3	80.3	141.5	r 7,532.6
June	2,538.3	1,687.6	1,220.5	571.0	638.7	181.4	80.5	134.2	7,052.1
Standard error (b) of Level Change									
	51.9	40.2	26.5	12.9	13.4	4.9	2.4	3.1	73.4
	23.8	22.2	10.9	6.9	7.1	2.7	1.4	1.5	35.9
TREND ESTIMATES (c) \$ million									
<i>1990 —</i>									
April	2,625.4	1,854.0	1,236.2	579.0	652.8	183.0	n.p.	126.6	7,316.9
May	2,641.1	1,845.6	1,236.8	581.2	659.0	184.6	n.p.	128.0	7,338.3
June	2,656.3	1,839.6	1,236.9	583.1	664.0	186.3	n.p.	129.4	7,364.0
July	2,668.3	1,834.5	1,238.3	585.2	666.5	187.7	n.p.	130.4	7,386.3
August	2,674.7	1,829.0	1,241.1	588.5	667.0	188.5	n.p.	131.0	7,401.1
September	2,675.5	1,823.8	1,245.5	593.0	666.4	188.9	n.p.	131.1	7,409.7
October	2,672.7	1,820.8	1,251.7	599.5	665.9	189.5	n.p.	131.3	7,420.3
November	2,669.2	1,819.8	1,259.6	606.9	665.7	190.5	n.p.	131.9	7,433.6
December	2,667.7	1,820.1	1,267.6	613.7	665.5	191.7	n.p.	133.2	7,446.3
<i>1991 —</i>									
January	2,671.6	1,821.7	1,273.8	618.6	665.3	192.7	n.p.	134.8	7,459.6
February	2,680.1	1,823.0	1,277.6	620.8	665.0	193.6	n.p.	136.6	7,472.1
March	2,689.5	1,823.6	1,279.7	620.9	664.9	193.9	n.p.	138.4	7,480.1
April	2,697.1	1,823.3	1,279.7	619.8	665.2	193.6	n.p.	139.9	7,482.2
May	2,702.7	1,822.6	1,278.4	618.0	666.1	193.1	n.p.	141.1	7,482.4
June	2,709.6	1,821.3	1,276.5	616.1	667.3	192.8	n.p.	141.9	7,484.2

See footnotes at end of table.

TABLE 5. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, AUSTRALIA, STATES AND TERRITORIES (a)—continued

Month	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory	Australia	TREND ESTIMATES (c)	
										Percentage change from preceding month	
<i>1990—</i>											
April	0.6	-0.5	0.3	0.5	0.8	0.9	n.p.	1.0	0.2		
May	0.6	-0.5	0.0	0.4	0.9	0.9	n.p.	1.1	0.3		
June	0.6	-0.3	0.0	0.3	0.8	0.9	n.p.	1.1	0.4		
July	0.5	-0.3	0.1	0.4	0.4	0.8	n.p.	0.8	0.3		
August	0.2	-0.3	0.2	0.6	0.1	0.4	n.p.	0.5	0.2		
September	0.0	-0.3	0.4	0.8	-0.1	0.2	n.p.	0.1	0.1		
October	-0.1	-0.2	0.5	1.1	-0.1	n.p.	n.p.	0.2	0.1		
November	-0.1	-0.1	0.6	1.2	0.0	0.5	n.p.	0.5	0.2		
December	-0.1	0.0	0.6	1.1	0.0	0.6	n.p.	1.0	0.2		
<i>1991—</i>											
January	0.1	0.1	0.5	0.8	0.0	0.5	n.p.	1.2	0.2		
February	0.3	0.1	0.3	0.4	0.0	0.5	n.p.	1.3	0.2		
March	0.4	0.0	0.2	0.0	0.0	0.2	n.p.	1.3	0.1		
April	0.3	0.0	0.0	-0.2	0.0	-0.2	n.p.	1.1	0.0		
May	0.2	0.0	-0.1	-0.3	0.1	-0.3	n.p.	0.9	0.0		
June	0.3	-0.1	-0.1	-0.3	0.2	-0.2	n.p.	0.6	0.0		
TREND ESTIMATES (c)											
Percentage change from corresponding month of previous year											
<i>1990—</i>											
April	8.0	3.7	8.2	5.5	7.3	8.9	n.p.	10.0	6.6		
May	7.6	2.6	7.2	5.7	7.8	9.4	n.p.	11.0	6.2		
June	7.1	1.8	6.3	5.8	7.6	9.7	n.p.	11.4	5.8		
July	6.6	1.2	5.5	5.7	6.6	9.7	n.p.	10.9	5.3		
August	6.1	0.5	5.0	5.8	5.2	9.2	n.p.	10.1	4.7		
September	5.7	-0.4	4.7	6.0	4.0	8.6	n.p.	9.0	4.1		
October	5.2	-1.3	4.5	6.7	3.4	8.4	n.p.	8.2	3.6		
November	4.6	-2.1	4.5	7.5	3.2	8.5	n.p.	8.1	3.3		
December	4.1	-2.6	4.6	8.3	3.4	8.6	n.p.	8.7	3.0		
<i>1991—</i>											
January	3.7	-2.8	4.4	8.6	3.4	8.3	n.p.	9.4	2.8		
February	3.4	-2.6	4.1	8.4	3.2	7.8	n.p.	10.0	2.6		
March	3.1	-2.2	3.8	7.8	2.7	6.9	n.p.	10.5	2.5		
April	2.7	-1.7	3.5	7.0	1.9	5.8	n.p.	10.5	2.3		
May	2.3	-1.2	3.4	6.3	1.1	4.6	n.p.	10.2	2.0		
June	2.0	-1.0	3.2	5.7	0.5	3.5	n.p.	9.7	1.6		

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) The standard error of the estimates for the latest month and of the latest month from the preceding month - see paragraphs 9 to 13 of Explanatory Notes. (c) Subject to revision - see from paragraph 21 of Explanatory Notes.

TABLE 6. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
QUARTERLY ESTIMATES, AT CONSTANT (AVERAGE 1984-85) PRICES, AUSTRALIA, STATES AND TERRITORIES (a)

Quarter	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory	Australia
	ORIGINAL \$ million								
<i>1990 —</i>									
June	5,371.6	3,671.0	2,498.5	1,204.8	1,328.5	374.6	152.8	271.8	14,873.6
September	5,408.5	3,580.5	2,535.5	1,178.2	1,305.9	370.0	168.7	271.1	14,798.4
December	6,254.8	4,162.9	2,874.8	1,399.4	1,515.5	431.1	166.6	310.0	17,115.1
<i>1991 —</i>									
March	5,151.4	3,467.0	2,424.1	1,195.7	1,263.8	381.1	138.3	263.3	14,284.7
June	5,314.7	3,476.9	2,458.3	1,212.2	1,292.2	370.1	154.5	285.2	14,564.1
SEASONALLY ADJUSTED ESTIMATES \$ million									
<i>1990 —</i>									
June	5,577.9	3,821.1	2,603.7	1,242.2	1,365.4	386.8	n.p.	277.3	15,387.6
September	5,647.5	3,759.7	2,578.2	1,231.1	1,372.8	392.9	n.p.	278.5	15,458.1
December	5,531.9	3,680.2	2,590.7	1,247.3	1,351.1	385.1	n.p.	276.9	15,228.1
<i>1991 —</i>									
March	5,504.4	3,643.2	2,580.6	1,268.7	1,339.8	400.1	n.p.	287.6	15,196.9
June	5,516.9	3,617.6	2,561.6	1,249.1	1,327.6	382.2	n.p.	291.4	15,045.8
percentage change from preceding quarter									
<i>1990 —</i>									
June	0.8	-2.3	0.0	1.4	1.4	2.0	n.p.	2.6	-0.1
September	1.2	-1.6	-1.0	-0.9	0.5	1.6	n.p.	0.4	0.5
December	-2.0	-2.1	0.5	1.3	-1.6	-2.0	n.p.	-0.6	-1.5
<i>1991 —</i>									
March	-0.5	-1.0	-0.4	1.7	-0.8	3.9	n.p.	3.9	-0.2
June	0.2	-0.7	-0.7	-0.5	-0.9	-4.5	n.p.	1.3	-1.0
percentage change from corresponding quarter of previous year									
<i>1990 —</i>									
June	1.6	-2.7	2.8	2.6	2.4	4.8	n.p.	6.9	1.3
September	2.4	-4.1	0.9	1.0	-0.1	4.7	n.p.	4.2	0.4
December	-0.6	-6.5	0.6	2.2	-2.2	2.7	n.p.	3.1	-1.7
<i>1991 —</i>									
March	-0.5	-6.8	-0.9	3.6	-0.5	5.5	n.p.	6.4	-1.3
June	-1.1	-5.3	-1.6	0.6	-2.8	-1.2	n.p.	5.1	-2.2

(a) Excludes motor vehicle dealers, petrol stations, etc.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a)

Month	Grocers, confectioners, tobacc onists	Hotels, liquor stores, licensed clubs	Cafes and restau rants	Clothing and fabrics	Depart ment and general stores	Domestic hardware stores	Elect rical goods	Floor cover ings	Furn iture stores	Pharma cies	News agents	Other stores	Total
	Other food stores	Butchers	stores	stores	Footwear stores	stores	jewellers	stores	stores				
<b>NEW SOUTH WALES</b>													
<b>ORIGINAL \$ million</b>													
<b>1990 —</b>													
April	570.9	72.8	178.6	448.2	134.4	181.4	257.1	34.7	61.5	127.6	49.8	19.6	114.3
May	597.3	78.0	177.9	447.1	130.6	211.4	284.5	36.4	68.6	146.3	56.4	24.4	124.1
June	607.7	85.8	176.3	444.9	124.3	178.2	284.1	40.4	63.0	134.0	55.0	26.3	114.4
July	597.3	83.6	172.7	465.3	123.2	177.1	253.7	34.8	60.8	133.2	54.0	21.3	116.7
August	647.5	85.0	175.1	468.8	130.1	172.6	263.6	33.3	64.9	138.1	51.3	24.5	123.9
September	607.5	78.9	152.3	475.5	139.9	184.0	264.0	35.7	64.8	131.7	51.7	26.1	135.9
October	632.3	79.4	165.7	494.8	130.5	199.6	274.6	35.2	71.6	144.3	58.9	25.8	146.9
November	667.8	79.7	164.6	502.9	136.7	215.2	323.7	35.8	81.2	147.0	56.1	26.3	139.9
December	740.0	85.1	185.7	571.1	158.1	292.3	555.2	49.2	119.0	216.1	60.0	23.9	153.1
<b>1991 —</b>													
January	676.6	70.1	172.9	480.4	135.1	183.8	239.8	38.2	60.8	143.3	51.9	18.1	114.7
February	615.8	67.8	152.4	433.6	119.5	152.9	206.7	28.9	64.5	129.8	48.4	20.7	114.2
March	671.8	75.3	165.7	467.4	125.1	171.1	249.1	33.4	69.1	131.5	54.6	21.9	125.3
April	620.7	74.3	165.7	452.3	120.6	203.5	257.8	38.0	64.5	129.2	53.0	21.4	127.4
May	665.1	78.4	161.5	458.0	128.6	227.7	288.4	40.4	70.8	142.0	59.3	27.8	137.2
June	619.8	76.4	161.4	433.8	123.3	196.1	251.0	35.5	68.1	131.2	50.8	23.3	148.4
<b>Standard error (b) of</b>													
Level	16.4	7.2	13.9	30.2	14.0	14.3	0.0	3.3	5.7	8.2	5.3	2.7	19.9
Change	8.9	2.7	7.4	10.6	5.4	8.0	0.0	1.0	4.1	2.3	3.7	1.9	11.2
<b>TREND ESTIMATES (c)</b>													
<b>\$ million</b>													
<b>percentage change from preceding month</b>													
<b>1991 —</b>													
January	660.7	74.3	163.6	463.1	n.p.	202.9	285.8	37.4	66.5	148.8	54.1	23.8	127.3
February	662.1	74.9	164.8	461.5	n.p.	203.1	285.6	37.4	69.4	147.2	55.3	24.2	127.3
March	660.2	76.1	165.7	462.2	n.p.	202.8	285.7	37.2	73.3	144.8	56.2	24.5	130.2
April	657.0	77.4	166.7	464.1	n.p.	202.5	285.4	36.8	77.1	142.0	56.7	24.7	124.0
May	653.6	78.6	167.8	466.2	n.p.	202.5	284.7	36.4	80.5	139.5	56.9	24.8	140.3
June	650.6	80.0	168.5	469.1	n.p.	202.6	284.3	35.9	83.7	137.0	56.6	24.8	145.8

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a)—continued

Month	Grocers, confectioners, tobacco- onists						Depart- ment stores						Victoria					
	Hotels, liquor stores, licensed clubs	Other food stores	Butchers	Cafes and rest- aurants	Clothing and fabrics stores	Footwear stores	Domestic hardware stores,	Furni- ture stores	Elec- trical goods stores	Furni- ture stores	Floor cover- ings stores	Pharma- cies	News- agents	Other stores	Total			
ORIGINAL \$million																		
<i>1990—</i>																		
April	546.7	47.7	115.1	172.6	97.1	139.4	177.9	24.0	63.6	115.1	32.9	13.0	58.6	53.3	92.6	1,749.6		
May	570.1	50.6	111.4	163.7	99.0	152.7	188.4	24.8	69.4	125.3	37.1	15.1	63.1	61.7	93.8	1,826.2		
June	552.0	50.7	118.0	160.5	92.6	148.4	195.6	23.5	62.2	120.4	34.3	16.2	53.8	56.4	89.1	1,773.8		
July	526.0	46.1	118.0	159.2	104.0	145.9	156.2	21.8	65.5	114.5	38.7	12.7	52.5	56.3	92.9	1,710.3		
August	571.6	48.2	116.9	160.9	96.4	139.5	171.5	19.3	67.1	119.8	39.3	14.4	57.5	59.3	99.6	1,781.3		
September	539.1	47.4	109.3	182.7	101.8	130.9	162.4	19.8	65.3	105.0	34.5	11.3	55.2	53.6	100.1	1,718.3		
October	581.7	47.3	113.1	182.7	99.5	141.3	176.7	22.2	71.6	108.7	36.9	14.2	58.2	53.6	104.5	1,812.3		
November	604.5	45.5	113.5	194.3	95.5	149.1	212.1	22.9	79.2	110.4	39.0	12.4	55.5	56.1	108.2	1,898.3		
December	668.6	50.1	140.8	249.7	101.5	212.3	373.6	35.2	129.6	150.0	43.0	13.4	66.5	76.8	148.4	2,459.5		
<i>1991—</i>																		
January	597.0	45.2	125.2	175.5	91.6	124.8	152.7	30.2	69.6	108.8	37.8	9.2	52.4	66.8	92.8	1,779.6		
February	551.5	42.7	104.2	167.2	86.7	114.9	135.6	23.4	71.6	91.5	34.3	9.4	48.0	57.6	89.3	1,627.9		
March	613.0	44.4	116.7	176.0	85.8	128.2	167.9	25.1	65.0	98.5	36.7	9.8	65.7	55.8	89.4	1,777.9		
April	560.9	44.9	113.9	164.6	82.1	149.5	174.5	28.7	66.3	106.5	34.0	9.8	63.6	49.8	84.6	1,733.9		
May	609.0	46.7	117.7	165.2	86.6	152.8	191.3	29.3	67.4	109.8	34.5	13.0	68.3	58.8	89.0	1,839.3		
June	556.3	41.5	119.2	146.0	89.9	125.6	176.8	24.3	60.0	101.2	42.6	11.9	67.3	51.7	72.4	1,687.6		
Standard error (b) of Level Change	15.0 5.1	6.1 4.8	24.4 2.0	8.9 13.2	12.5 9.8	8.3 6.4	0.0 0.0	2.6 2.7	6.7 1.4	12.5 2.8	9.3 6.6	1.7 1.7	9.7 2.0	5.0 1.9	5.8 7.5	40.2 22.2		
TREND ESTIMATES (c)																		
<i>1991—</i>																		
January	588.0	46.5	116.8	176.3	n.p.	144.4	189.8	27.8	73.6	110.4	38.2	10.9	55.3	58.2	n.p.	1,821.7		
February	589.3	46.0	117.5	174.1	n.p.	145.3	188.8	28.0	74.2	110.3	38.6	10.8	58.3	58.4	n.p.	1,823.0		
March	590.4	45.3	117.8	173.1	n.p.	145.1	187.9	27.5	74.5	109.7	38.8	10.9	62.2	58.1	n.p.	1,823.6		
April	591.8	44.5	118.4	172.6	n.p.	143.9	187.0	26.7	74.5	108.6	38.9	11.1	65.9	57.5	n.p.	1,823.3		
May	593.3	43.6	119.5	172.2	n.p.	142.1	186.1	25.9	74.3	107.3	39.2	11.4	69.1	57.1	n.p.	1,822.6		
June	595.0	42.7	120.0	171.9	n.p.	139.7	185.7	24.9	74.2	105.7	39.5	11.6	71.7	56.5	n.p.	1,821.3		
percentage change from preceding month																		
<i>1991—</i>																		
January	0.4	-0.6	0.9	-1.6	n.p.	0.9	-0.5	3.3	1.1	0.0	1.9	-2.7	2.8	0.5	n.p.	0.1		
February	0.2	-1.1	0.6	-1.2	n.p.	0.6	-0.5	0.7	0.8	-0.1	1.0	-0.9	5.4	0.3	n.p.	0.1		
March	0.2	-1.5	0.3	-0.6	n.p.	-0.1	-0.5	-1.8	0.4	-0.5	0.5	0.9	6.7	-0.5	n.p.	0.0		
April	0.2	-1.8	0.5	-0.3	n.p.	-0.8	-0.5	-2.9	0.0	-1.0	0.3	1.8	5.9	-1.0	n.p.	0.0		
May	0.3	-2.0	0.9	-0.2	n.p.	-1.3	-0.5	-3.0	-0.3	-1.2	0.8	2.7	4.9	-0.7	n.p.	0.0		
June	0.3	-2.1	0.4	-0.2	n.p.	-1.7	-0.2	-3.9	-0.1	-1.5	0.8	1.8	3.8	-1.1	n.p.	-0.1		

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a)—continued

Month	Grocers, confectioners, tobac- conists	Hotels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment and general stores	Footwear stores	Domestic hardware stores	Electri- cal goods stores	Furni- ture stores	Floor cover- ings stores	Pharma- ceutics	News- agents	Other stores	Total
<i>1990—</i>														
April	332.0	32.6	82.7	140.3	51.5	88.4	110.8	16.5	28.8	70.6	20.4	9.3	42.2	41.4
May	347.3	34.8	82.6	142.0	52.5	103.6	125.5	18.0	30.1	80.6	25.9	11.5	48.5	45.6
June	343.4	37.2	86.6	141.2	50.0	104.4	138.0	19.9	25.8	83.1	27.8	11.1	45.4	44.7
July	342.1	37.1	86.7	139.8	54.2	94.0	107.3	16.1	23.7	76.3	27.8	11.3	49.0	46.2
August	359.5	36.4	88.6	148.0	56.6	99.6	122.7	15.7	25.5	82.5	25.3	13.5	55.2	47.3
September	337.6	33.6	86.7	149.8	49.4	99.1	124.4	19.0	27.2	73.7	25.2	12.4	51.8	44.3
October	359.1	34.9	88.3	154.2	51.1	106.6	127.6	16.0	29.4	80.0	27.4	13.6	55.1	47.8
November	366.1	34.3	86.5	160.9	52.3	112.0	146.7	15.8	34.4	86.5	28.0	14.1	49.0	45.2
December	399.3	36.8	95.5	191.2	59.8	138.5	237.5	21.2	53.9	120.1	27.1	11.7	58.1	52.9
<i>1991—</i>														
January	374.5	32.5	96.1	153.4	58.2	97.5	114.5	19.6	33.1	86.0	20.9	10.8	43.5	44.9
February	341.6	29.8	85.3	134.7	50.0	81.6	97.0	12.0	33.1	80.9	20.7	12.2	40.2	44.5
March	379.0	36.7	89.4	155.2	51.3	83.6	112.2	15.1	27.5	79.4	24.5	10.2	45.0	46.1
April	350.9	33.0	84.5	147.9	53.0	90.0	113.4	15.9	25.9	78.7	24.1	10.9	45.6	44.9
May	376.6	34.9	83.6	149.4	54.2	99.5	127.5	17.7	29.5	81.4	25.8	12.2	50.6	48.6
June	356.8	32.9	89.2	151.9	49.2	96.6	122.7	20.0	28.6	75.7	24.4	11.8	40.7	45.1
Standard error (b) of Level Change	8.0	3.7	8.8	13.4	8.0	8.4	0.0	2.9	2.7	4.6	2.0	1.8	7.2	8.2
	2.7	1.3	2.9	3.8	3.1	2.1	0.0	1.1	2.0	2.5	1.8	0.5	3.7	3.6
TREND ESTIMATES (c)														
<i>1991—</i>														
January	365.0	34.1	88.2	154.0	n.p.	103.9	131.2	17.1	32.4	87.6	23.9	12.1	47.9	44.1
February	366.5	35.0	89.2	154.7	n.p.	103.8	130.1	17.0	32.9	88.0	24.3	11.9	47.6	44.9
March	367.8	35.5	89.9	155.8	n.p.	103.1	129.2	16.9	33.1	87.4	25.1	11.7	47.4	46.3
April	369.1	35.8	90.4	157.1	n.p.	102.0	128.4	17.0	33.0	86.0	25.8	11.5	47.1	47.7
May	370.4	35.7	90.7	158.2	n.p.	100.9	127.6	17.1	32.9	84.3	26.4	11.5	46.6	49.0
June	371.8	35.5	90.8	159.3	n.p.	100.1	127.4	17.2	32.7	82.4	26.9	11.5	46.0	50.2
percentage change from preceding month														
January	0.5	2.4	1.1	0.4	n.p.	0.9	-0.7	0.0	2.2	1.9	0.4	-3.2	-1.6	0.0
February	0.4	2.6	1.1	0.5	n.p.	-0.1	-0.8	-0.6	1.5	0.5	1.7	-1.7	-0.6	0.3
March	0.4	1.4	0.8	0.7	n.p.	-0.7	-0.7	-0.6	0.6	-0.7	3.3	-1.7	-0.4	0.2
April	0.4	0.8	0.6	0.8	n.p.	-1.1	-0.6	-0.6	-0.3	-1.6	2.8	-1.7	-0.6	0.0
May	0.4	-0.3	0.3	0.7	n.p.	-1.1	-0.6	0.6	-0.3	-2.0	2.3	0.0	-1.1	2.7
June	0.4	-0.6	0.1	0.7	n.p.	-0.8	-0.2	0.6	-0.6	-2.3	1.9	0.0	-1.3	2.4

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a)—continued

Month	Grocers, confectioners, tobacc- onists		Hotels, liquor stores,		Depart- ment stores,		Floor cover- ings stores		Furn- iture stores		Pharma- cies		News- agents		Other stores		Total
	Other food stores	Butchers	Cafes, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Footwear general stores	Domestic hardware stores	Electri- cal goods stores	Furni- ture stores	Furni- ture stores	Jewellers	Newspaper agents	News- agents	Other stores	Other stores	Total	
SOUTH AUSTRALIA																	
<i>1990—</i>																	
April	163.3	13.4	40.4	66.1	22.1	38.8	80.2	8.7	13.0	33.6	14.4	4.9	18.5	12.2	24.2	553.7	
May	172.9	14.2	40.8	60.9	23.5	41.5	88.7	8.9	14.4	39.0	16.5	6.0	20.4	13.9	23.5	584.9	
June	168.0	16.4	41.2	58.9	22.2	39.7	82.0	8.6	12.9	39.4	14.9	5.2	20.2	13.5	23.4	566.5	
July	160.9	14.3	41.2	56.5	22.3	40.8	82.4	7.8	12.3	37.9	15.7	5.9	18.7	14.2	22.5	553.5	
August	177.6	15.9	43.1	59.1	22.3	36.1	82.8	7.1	14.5	38.1	15.3	6.4	21.6	14.6	23.8	578.2	
September	161.5	14.1	42.2	62.5	25.9	35.3	76.7	8.0	13.8	32.5	14.6	5.0	20.1	12.4	29.9	554.5	
October	175.1	15.6	46.2	63.5	28.1	38.0	84.6	8.6	14.8	34.4	15.1	6.0	23.1	12.9	27.4	595.4	
November	186.9	15.9	48.9	68.3	35.0	37.6	106.4	8.5	16.6	37.1	15.2	7.2	23.6	15.5	30.0	652.7	
December	206.9	20.3	50.9	84.7	30.2	46.1	157.9	10.5	25.5	48.4	14.3	4.0	30.7	19.6	46.2	796.2	
<i>1991—</i>																	
January	189.1	15.0	46.3	69.4	27.0	37.2	75.9	8.7	12.9	36.2	14.2	4.4	25.2	12.5	29.7	603.6	
February	172.9	13.4	41.5	60.9	22.3	29.4	68.2	6.5	12.2	31.8	12.7	4.5	24.3	12.7	27.9	541.1	
March	200.1	14.6	48.0	65.9	25.6	38.2	74.2	8.2	12.0	33.4	15.1	5.2	28.4	15.3	28.2	612.4	
April	176.9	13.4	42.8	62.3	25.1	45.0	83.0	9.5	12.5	34.4	13.8	5.2	28.4	12.1	26.2	590.4	
May	200.2	14.4	47.3	58.4	25.2	42.6	89.3	9.5	13.3	37.4	13.5	5.2	30.9	13.5	26.7	627.3	
June	183.1	15.1	41.5	54.9	24.4	34.9	78.6	8.9	12.8	31.0	13.7	4.4	30.3	11.5	25.9	571.0	
<i>Standard error (b) of</i>																	
Level	6.5	2.5	4.0	3.0	3.6	2.1	2.3	0.0	0.0	0.7	1.0	2.4	1.7	0.8	6.8	0.7	3.0
Change	0.8	0.8	3.6	1.6	2.1	2.3	0.0	0.2	1.1	4.0	0.9	0.5	0.9	0.5	0.6	1.4	6.9
TREND ESTIMATES (c)																	
<i>1991—</i>																	
January	187.9	15.2	46.2	65.1	n.p.	38.0	90.2	8.8	13.9	36.8	14.6	5.0	26.0	14.4	n.p.	618.6	
February	190.5	15.0	46.3	64.5	n.p.	39.3	89.6	8.7	14.1	36.5	14.7	4.9	27.6	14.2	n.p.	620.8	
March	191.8	14.8	46.3	63.8	n.p.	40.2	88.6	8.6	14.3	36.1	14.6	4.9	29.0	13.8	n.p.	620.9	
April	192.5	14.7	46.2	63.1	n.p.	40.6	87.5	8.5	14.6	35.5	14.4	5.0	30.2	13.4	n.p.	619.8	
May	192.9	14.7	46.1	62.3	n.p.	40.6	86.5	8.5	14.9	34.9	14.1	5.0	31.3	13.1	n.p.	618.0	
June	193.2	14.7	46.0	61.6	n.p.	40.3	85.9	8.4	15.3	34.2	13.9	5.1	31.9	12.7	n.p.	616.1	
percentage change from preceding month																	
<i>1991—</i>																	
January	2.1	-1.3	0.9	-0.8	n.p.	3.5	-0.1	0.0	-0.7	0.0	0.7	0.7	-2.0	6.1	-0.7	n.p.	0.8
February	1.4	-1.3	0.2	-0.9	n.p.	3.4	-0.7	-1.1	1.4	-0.8	0.7	-2.0	6.2	-1.4	n.p.	0.4	
March	0.7	-1.3	0.0	-1.1	n.p.	2.3	-1.1	-1.1	1.4	-1.1	-0.7	0.0	5.1	-2.8	n.p.	0.0	
April	0.4	-0.7	-0.2	-1.1	n.p.	1.0	-1.2	-1.2	2.1	-1.7	-1.4	2.0	4.1	-2.9	n.p.	-0.2	
May	0.2	0.0	-0.2	-1.3	n.p.	0.0	-1.1	0.0	2.1	-1.7	-2.1	0.0	3.6	-2.2	n.p.	-0.3	
June	0.2	0.0	-0.2	-1.1	n.p.	-0.7	-0.7	-0.7	2.7	-1.4	-2.0	2.0	1.9	-3.1	n.p.	-0.3	

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a)—continued

Month	WESTERN AUSTRALIA											ORIGINAL \$ million				
	Grocers, confectioners, tobacco- smokers, etc.	Cafes, liquor stores, licensed clubs	Other food stores	Butchers	Hospitality	Clothing and fabrics stores	Rest- aurants	Footwear stores	men's and general stores	Domestic hardware stores, jewellers	Furniture stores	Floor- coverings	Pharma- cies	New- agents	Other stores	Total
<i>1990—</i>																
April	202.8	6.2	45.4	75.8	31.9	37.1	71.6	7.4	12.8	39.5	8.7	7.3	26.3	21.4	29.3	623.4
May	211.7	7.0	46.7	74.7	31.3	39.5	76.7	8.0	14.5	45.1	10.0	7.9	30.1	20.0	29.6	653.0
June	206.8	5.9	49.1	73.3	34.5	37.7	81.4	7.2	15.1	44.9	10.1	6.8	28.6	22.2	29.5	653.2
July	203.5	5.7	49.0	72.1	33.1	35.4	65.0	7.4	16.5	40.9	11.0	6.9	28.6	18.7	32.5	626.3
August	218.1	5.7	49.9	74.8	32.8	35.6	70.8	5.5	15.3	43.1	10.1	6.1	30.4	20.9	29.6	649.0
September	202.3	5.4	53.2	75.1	36.5	31.7	67.4	6.7	15.9	37.7	10.2	6.4	28.1	19.7	35.2	631.5
October	210.2	5.8	57.6	76.6	36.2	32.5	74.3	7.1	17.3	40.3	11.6	6.9	31.2	18.6	37.6	663.7
November	220.5	5.7	56.3	77.3	37.6	33.5	84.6	7.1	18.2	43.1	11.6	7.1	30.9	19.4	38.2	691.0
December	251.3	6.2	64.6	96.9	44.5	48.3	141.3	9.0	32.0	54.5	11.6	5.1	40.5	24.9	48.7	879.3
<i>1991—</i>																
January	221.6	5.8	56.1	77.2	37.8	30.0	66.5	7.2	15.1	38.2	11.1	4.4	25.2	17.1	31.6	644.9
February	205.7	4.7	52.8	68.9	34.1	26.0	57.5	5.3	14.3	35.4	10.7	5.1	24.6	18.5	27.7	591.2
March	235.8	5.1	53.7	73.0	37.0	29.4	68.8	6.1	13.9	31.6	9.9	5.4	26.1	20.7	33.8	650.1
April	217.7	5.2	52.2	68.3	38.3	35.5	70.7	7.7	13.0	33.6	9.9	6.1	25.9	16.1	35.6	635.8
May	235.2	5.0	51.5	67.5	37.7	38.1	79.1	7.8	15.2	37.2	10.8	6.3	27.3	18.7	33.8	671.1
June	221.5	4.4	53.7	68.9	35.8	38.8	70.7	7.4	14.5	34.7	12.3	5.3	26.4	16.3	28.1	638.7
<i>Standard error (b) of</i>																
Level	5.3	0.7	7.1	3.8	3.9	0.0	0.2	1.9	3.8	1.6	0.7	2.5	3.0	3.4	13.4	
Change	2.3	0.4	2.4	1.4	3.3	1.7	0.0	0.1	1.4	0.5	1.3	0.5	1.7	3.0	2.7	7.1
<i>TREND ESTIMATES (c)</i>																
\$million																
<i>1991—</i>																
January	219.7	5.8	55.2	72.5	n.p.	33.3	77.0	7.1	16.4	40.5	10.9	5.6	28.5	19.1	n.p.	665.3
February	221.9	5.5	54.4	71.7	n.p.	33.9	77.3	7.2	16.4	39.1	11.1	5.6	28.2	19.1	n.p.	665.0
March	224.0	5.3	53.7	71.4	n.p.	34.7	77.2	7.2	16.3	37.6	11.2	5.7	27.9	18.9	n.p.	664.9
April	226.2	5.0	53.4	71.8	n.p.	35.6	76.8	7.3	16.3	36.0	11.4	5.9	27.8	18.6	n.p.	665.2
May	228.3	4.8	53.3	72.5	n.p.	36.5	76.2	7.3	16.3	34.7	11.6	6.0	27.8	18.2	n.p.	666.1
June	230.5	4.6	53.1	73.5	n.p.	37.3	75.7	7.3	16.3	33.7	11.9	6.1	27.8	17.8	n.p.	667.3
percentage change from preceding month																
January	0.9	-1.7	-1.1	-2.0	n.p.	1.2	0.8	1.4	0.0	-2.2	0.9	-1.8	-1.4	0.0	n.p.	0.0
February	1.0	-5.2	-1.4	-1.1	n.p.	1.8	0.4	1.4	0.0	-3.5	1.8	0.0	-1.1	0.0	n.p.	0.0
March	0.9	-3.6	-1.3	-0.4	n.p.	2.4	-0.1	0.0	-0.6	-3.8	0.9	1.8	-1.1	-1.0	n.p.	0.0
April	1.0	-5.7	-0.6	0.6	n.p.	2.6	-0.5	1.4	0.0	-4.3	1.8	3.5	-0.4	-1.6	n.p.	0.0
May	0.9	-4.0	-0.2	1.0	n.p.	2.5	-0.8	0.0	0.0	-3.6	1.8	1.7	0.0	-2.2	n.p.	0.1
June	1.0	-4.2	-0.4	1.4	n.p.	2.2	-0.7	0.0	0.0	-2.9	2.6	1.7	0.0	-2.2	n.p.	0.2

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a)—continued

Month	Grocers, confec- tioners, tobacc- o-nists	Hotels, liquor stores, licensed clubs	Cafes, and restau- rants	Depart- ment and fabrics	Domestic hardware stores, general footwear stores	Elec- trical goods	Furni- ture stores	Floor cover- ings	Pharma- cies	News- agents	Other stores	Total
	Butchers	Other food stores	Cafes, and restau- rants	Clothing and fabrics	Footwear stores	Jewellers	stores	Furni- ture stores	Pharma- cies	News- agents	Other stores	Total
ORIGINAL \$ million												
1990 —												
April	56.4	3.9	8.7	25.2	5.6	14.0	17.4	3.0	2.6	9.1	3.1	1.5
May	58.6	4.5	9.4	25.1	5.5	15.7	19.6	3.2	2.7	11.8	3.8	1.8
June	57.8	4.1	10.2	25.4	5.2	15.2	18.9	3.2	2.5	10.2	3.3	1.8
July	56.1	4.0	9.9	24.8	5.2	13.6	15.9	2.8	2.4	10.3	3.4	1.9
August	61.8	4.6	10.2	24.0	5.0	13.6	17.7	2.6	3.0	10.8	3.9	2.2
September	57.0	4.4	11.1	25.1	5.6	12.1	16.9	2.7	3.2	10.4	2.9	2.0
October	58.9	5.0	11.9	26.3	6.4	13.5	17.9	2.6	3.2	10.0	3.3	2.2
November	63.0	4.5	11.7	27.9	6.1	14.0	21.6	2.8	3.7	11.1	3.7	1.9
December	69.9	5.7	13.0	33.5	7.3	17.0	36.5	4.1	6.6	14.4	3.8	1.8
1991 —												
January	63.2	4.3	12.6	31.4	6.1	12.4	17.0	2.8	3.1	9.9	3.1	1.3
February	56.8	4.0	11.7	27.6	5.3	14.4	15.5	3.1	2.7	9.3	2.9	1.4
March	63.9	4.0	13.5	32.5	8.7	13.6	17.8	3.2	3.4	9.7	3.2	1.3
April	55.4	3.5	12.2	27.9	7.1	14.0	17.6	3.1	3.0	10.1	3.2	1.4
May	61.3	4.2	12.3	25.7	7.2	14.7	18.8	3.2	3.3	11.0	3.4	1.5
June	56.5	4.1	13.5	26.9	5.9	15.0	16.8	3.0	2.7	10.3	3.4	1.5
Standard error (b) of Level Change	1.8 0.6	0.8 0.9	1.9 0.6	2.9 1.1	0.9 0.9	2.2 1.7	0.0 0.0	0.3 0.1	0.1 0.2	0.4 0.1	0.2 0.1	0.7 0.7
TREND ESTIMATES(c)												
1991 —												
January	61.5	4.4	12.0	28.4	n.p.	13.8	19.9	3.2	3.4	11.2	3.3	1.6
February	61.4	4.3	12.3	29.0	n.p.	14.2	19.8	3.2	3.4	11.0	3.4	1.5
March	61.1	4.2	12.6	29.3	n.p.	14.5	19.5	3.2	3.5	10.9	3.4	1.5
April	60.6	4.1	13.0	29.4	n.p.	14.7	19.2	3.1	3.5	10.6	3.4	1.5
May	60.2	4.1	13.2	29.3	n.p.	14.9	18.8	3.0	3.4	10.3	3.4	1.5
June	59.9	4.1	13.5	29.2	n.p.	15.1	18.5	2.9	3.4	10.1	3.4	1.5
percentage change from preceding month												
1991 —												
January	0.5	-4.3	1.7	2.5	n.p.	2.2	0.5	3.2	0.0	0.0	0.0	-1.4
February	-0.2	-2.3	2.5	2.1	n.p.	2.9	-0.5	0.0	0.0	-1.8	3.0	-6.3
March	-0.5	-2.3	2.4	1.0	n.p.	2.1	-1.5	0.0	2.9	-0.9	0.0	0.0
April	-0.8	-2.4	3.2	0.3	n.p.	1.4	-1.5	-3.1	0.0	-2.8	0.0	0.0
May	-0.7	0.0	1.5	-0.3	n.p.	1.4	-2.1	-3.2	-2.9	0.0	0.0	0.0
June	-0.5	0.0	2.3	-0.3	n.p.	1.3	-1.6	-3.3	0.0	-1.9	0.0	0.0

See footnotes at end of table.

TABLE 7. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES, AT CURRENT PRICES, BY INDUSTRY, STATES AND ACT (a)—continued

Month	Grocers, confectioners, tobac- conists	Butchers	AUSTRALIAN CAPITAL TERRITORY										Other stores	Total	
			Hotels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics	Depart- ment and general stores	Footwear stores	Domestic hardware stores, jewellers	Electri- cal goods	Furni- ture stores	Floor- cover- ings	Pharma- cies	News- agents		
<b>ORIGINAL \$ million</b>															
<b>1990—</b>															
April	31.4	2.0	6.6	12.8	7.3	10.0	17.1	2.0	3.4	7.1	5.2	1.4	3.6	4.4	5.8
May	33.4	2.0	6.8	13.9	7.7	11.0	18.8	2.0	3.7	9.5	4.7	1.7	3.9	4.8	6.0
June	34.3	1.8	6.4	14.1	7.9	11.0	18.8	2.0	3.5	8.0	5.6	1.9	3.7	4.8	6.0
July	33.7	1.8	6.5	13.9	8.4	11.0	17.6	2.0	3.1	7.5	4.7	1.8	3.9	4.6	6.4
August	36.3	1.9	6.1	14.4	7.9	9.9	16.9	1.9	3.1	7.9	5.2	1.8	4.1	5.2	6.2
September	33.7	1.8	6.6	15.0	10.1	9.0	16.7	1.9	3.3	7.1	4.6	1.9	4.0	4.4	6.5
October	35.1	1.9	6.9	15.1	9.1	9.0	17.9	2.0	3.3	7.9	5.2	1.7	4.4	5.1	7.0
November	36.5	1.8	6.7	15.8	9.5	9.0	20.9	2.0	3.8	7.5	5.3	1.7	4.5	5.4	7.1
December	40.3	1.8	8.0	18.5	9.2	12.4	36.4	2.6	6.4	9.1	5.3	1.7	4.5	6.4	8.5
<b>1991—</b>															
January	36.0	1.6	7.6	13.1	7.8	8.3	16.1	2.1	3.4	6.7	4.3	1.7	3.8	4.4	6.4
February	34.8	1.6	7.9	12.2	8.9	6.9	14.1	1.6	3.2	6.5	4.3	1.5	3.9	4.7	6.2
March	39.5	2.1	9.5	14.7	8.0	8.3	17.4	2.0	3.3	7.1	5.0	1.7	5.3	5.5	6.9
April	37.0	1.9	9.3	13.7	8.1	10.9	19.1	2.4	3.2	7.2	5.3	1.8	4.9	4.6	7.0
May	39.2	2.0	9.2	15.3	8.4	10.3	20.2	2.2	3.4	7.7	5.5	1.7	5.2	4.7	6.6
June	36.3	1.9	9.6	14.7	8.1	9.6	17.6	2.1	4.0	7.9	4.7	1.7	4.5	4.6	6.8
<i>Standard error (b) of</i>															
Level	0.9	0.3	1.7	1.4	0.3	0.0	0.1	0.6	0.6	0.2	0.1	0.5	0.6	0.6	3.1
Change	0.9	0.1	0.5	0.3	0.4	0.2	0.0	0.0	0.6	0.3	0.4	0.0	0.3	0.5	1.5
<b>TREND ESTIMATES(c)</b>															
<b>1991—</b>															
January	37.1	1.8	8.0	14.6	n.p.	9.6	19.2	2.0	3.5	7.7	4.9	1.8	4.4	5.1	n.p.
February	37.7	1.9	8.7	14.5	n.p.	9.5	19.4	2.0	3.7	7.7	5.0	1.8	4.7	5.0	n.p.
March	38.2	1.9	9.2	14.5	n.p.	9.4	19.6	2.0	3.9	7.6	5.2	1.8	4.9	4.9	n.p.
April	38.4	2.0	9.7	14.6	n.p.	9.4	19.7	2.0	4.1	7.6	5.3	1.7	5.1	4.8	n.p.
May	38.5	2.0	10.1	14.7	n.p.	9.3	19.8	2.0	4.3	7.6	5.3	1.7	5.2	4.8	n.p.
June	38.6	2.1	10.4	14.9	n.p.	9.2	19.9	2.0	4.5	7.6	5.2	1.6	5.2	4.8	n.p.
percentage change from preceding month															
<b>1991—</b>															
January	2.2	0.0	8.1	-1.4	n.p.	0.0	0.0	-4.8	2.9	0.0	2.1	0.0	4.8	0.0	n.p.
February	1.6	5.6	8.8	-0.7	n.p.	-1.0	1.0	0.0	5.7	0.0	2.0	0.0	6.8	-2.0	n.p.
March	1.3	0.0	5.7	0.0	n.p.	-1.1	1.0	0.0	5.4	-1.3	4.0	0.0	4.3	-2.0	n.p.
April	0.5	5.3	5.4	0.7	n.p.	0.0	0.5	0.0	5.1	0.0	1.9	-5.6	4.1	-2.0	n.p.
May	0.3	0.0	4.1	0.7	n.p.	-1.1	0.5	0.0	4.9	0.0	0.0	2.0	0.0	0.0	n.p.
June	0.3	5.0	3.0	1.4	n.p.	-1.1	0.5	0.0	4.7	0.0	-1.9	-5.9	0.0	0.0	n.p.

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) The standard error of the estimates for the latest month and of the latest month from the preceding month - see paragraphs 9 to 13 of Explanatory Notes. (c) Subject to revision - see paragraph 21 of Explanatory Notes.

TABLE 8. TURNOVER OF RETAIL AND SELECTED SERVICE ESTABLISHMENTS,  
MONTHLY ESTIMATES AT CURRENT PRICES, NORTHERN TERRITORY (a)

Month	Food stores, liquor stores, and licensed clubs (b)		All other stores		Total	
	\$ million	% change from preceding month	\$ million	% change from preceding month	\$ million	% change from preceding month
<i>1990—</i>						
April	45.8	-0.4	21.5	-3.2	67.3	-1.3
May	50.0	9.2	24.8	15.3	74.8	11.1
June	51.7	3.4	25.9	4.4	77.4	3.5
July	55.3	7.0	26.6	2.7	82.1	6.1
August	56.1	1.4	27.4	3.0	83.5	1.7
September	52.7	-6.1	26.7	-2.6	79.3	-5.0
October	52.9	0.4	27.7	3.7	80.6	1.6
November	50.3	-4.9	27.5	-0.7	77.9	-3.3
December	51.0	1.4	36.3	32.0	87.5	12.3
<i>1991—</i>						
January	45.5	-10.8	21.3	-41.3	67.0	-23.4
February	44.2	-2.9	21.1	-0.9	65.3	-2.5
March	51.1	15.6	23.4	10.9	74.4	13.9
April	48.9	-4.3	23.7	1.3	72.8	-2.2
May	53.5	9.4	26.8	13.1	80.3	10.3
June	53.2	-0.6	27.3	1.9	80.5	0.2
<i>Standard error (c) of</i>						
Level	2.2		1.0		2.4	
Change	1.2		0.8		1.4	

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Includes Grocers, confectioners and tobacconists, Butchers, Other food stores, Hotels, liquor stores, licensed clubs, Cafes and restaurants. (c) The standard error of the estimates for the latest month and of the latest month from the preceding month - see paragraphs 9 to 13 of Explanatory Notes. NOTE: Series is not long enough to provide sufficient information to allow reliable seasonal adjustment estimates.

## EXPLANATORY NOTES

### **Introduction**

This publication presents monthly retail trade series based on estimates of the value of turnover of retail establishments classified by industry, and by State. These series replace the statistics based on the value of retail sales published up to June 1988.

2. From June 1988 the series in this publication are based on turnover data obtained from a sample of retail establishments. For the period until June 1988 the series have been adjusted to a turnover basis using movements in the previous retail sales series. Linked historical data are available on AUSSTATS, or can be provided by the ABS. More information on the survey methodology and the procedures used to link statistics for the new series with those for months prior to June 1988 are contained in the Information Paper: *Introduction of Improved Monthly Retail Trade Statistics* (8511.0).

### **Scope and coverage**

3. The estimates of turnover are derived from a survey covering all States and the two Territories. It includes in its scope all retail trade establishments classified to ASIC subdivision 48, *except* motor vehicle dealers, service stations, etc (ASIC classes 4861-4868); milk and bread vendors (4878-4879); shoe repairers (4846); and electrical appliance repairers n.e.c. (4857). *Also included* are cafes and restaurants (9231); hotels, etc. (mainly drinking places) (9232); licensed clubs (9241-9243); and hairdressers (9351-9352).

4. Retail establishments which do not have employees are excluded from the coverage of the survey.

### **Definition of turnover**

5. Turnover includes retail sales; wholesale sales; takings from repairs, meals and hiring of goods (except for rent, leasing and hiring of land and buildings); and commissions from agency activity (e.g. commissions received from collecting dry cleaning, selling lottery tickets, etc).

### **Industry detail**

6. The names of the industries for which statistics are published in this bulletin align with the titles given in ASIC, except for the following groupings:

Other food stores: ASIC classes 4883, 4885, 4886

Hotels, liquor stores, licensed clubs: ASIC classes 9232, 4884, 9241, 9242, 9243

Clothing and fabrics stores: ASIC classes 4843, 4844, 4847

Electrical goods stores: ASIC classes 4855, 4856

Other stores: ASIC classes 4892, 4893, 4895, 4896, 4897, 9351, 9352

### **Constant price statistics**

7. To enable analysis of the movement of retail activity in 'real' terms, estimates of retail turnover at constant (average 1984-85) prices are compiled each quarter. Constant price retail turnover series are derived by deflating the original current price series of retail turnover by specially compiled indexes of price change.

### **Reliability of estimates**

8. Retail trade statistics may be subject to error from various sources, which are usually classified as either sample or non-sample error.

### **Sample error**

9. Since retail turnover is estimated from a survey which includes a sampled component, the estimates are subject to sampling error. That is, they may differ from figures that would have resulted if all enterprises with retail establishments were included in the survey. One measure of the likely difference is given by the standard error. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all inscope units had been included, and about nineteen chances in twenty that the difference will be less than two standard errors.

10. Standard errors of estimates for the latest month and of estimates of change since the preceding month are shown in the tables. An example of the use of these standard errors is given below:

The *estimated change* of \$480.5 million (6.4 per cent) in the total value of turnover between June 1991 and May 1991 has a standard error of about \$35.9 million (0.5 per cent). Therefore, there are two chances in three that the change which would have been obtained if all units had been included in the survey would be within the range \$444.6 million to \$516.4 million (5.9 per cent to 6.9 per cent) and nineteen chances in twenty that the change would be within \$408.7 million to \$552.3 million (5.4 per cent to 7.4 per cent).

11. The standard errors for some industries in some States are relatively high and users are advised to exercise caution in interpreting movements for such series. Some users may wish to combine such industries to obtain an estimate of the combined group which is more accurate than the components. The standard error of level of any such combination of industries may be calculated by squaring the standard error for each of the component industries, adding the squared standard errors together, and taking the square root of that sum. For example, suppose the standard error of level for Industry A is \$1.5 million and the standard error for Industry B is \$2.0 million. Then the standard error for the combination of Industries A and B is  $\sqrt{(1.5)^2 + (2.0)^2} = \$2.5$  million.

12. Standard errors of estimates of change between non-consecutive months are not shown in publication tables.

These standard errors are generally much higher than the standard errors of change between consecutive months. For example, the standard error of change between the latest month and the corresponding month of the previous year is, on average, approximately 1.4 times the standard error of level of the latest month.

13. Seasonally adjusted, trend and constant price estimates are also subject to sampling variability. For seasonally adjusted estimates, the standard errors are approximately the same percentage of the estimate as for the unadjusted series. For trend estimates, the standard errors are generally not larger than for the seasonally adjusted estimates and are likely to be smaller. For constant price estimates, the standard errors may be up to 10 per cent higher than those for the corresponding current price estimates because of the sampling variability contained in the prices data used to deflate the current price estimates.

#### Non-sample error

14. This category includes a number of possible errors that arise in any type of collection, whether or not sampling of units is undertaken. The most significant of these errors are: misreporting of data items; deficiencies in coverage; non-response; and processing errors. In some cases the presence of these errors would, at least in part, be reflected in the size of the standard error.

15. *Reporting error.* Such error may arise because of poor form design, inability by survey respondents to provide requested data, or simply because of clerical error. Every effort is made to minimise reporting error by the careful design and testing of forms, and by examining inconsistencies both between different respondents and between the reports in successive months for each respondent.

16. Turnover is a relatively simple data item to collect accurately because it corresponds closely to total takings by respondents. While some reporting errors will be random and thus cancel out, others may be consistently in one direction and lead to bias in the results.

17. *Under coverage.* Because of limited sources available to identify enterprises with no employees, only enterprises with employees are included in the new survey. Non-employing units are estimated to account for approximately 6% of total turnover but their significance varies substantially from industry to industry. While the exclusion of such units will therefore lead to consistent underestimation of the level of turnover, their exclusion is considered to have a negligible effect on short term movements in Retail Trade.

18. Some error may also arise because of lags in the identification of new businesses. Studies undertaken by the ABS suggest that these lags also have a negligible impact on short term movements but lead to a small consistent underestimation of the level of turnover each month. An improved method of updating new businesses is currently being implemented. Refer to paragraphs 26 to 29 for more details.

19. *Non-response.* The survey of Retail Trade is a monthly survey conducted to tight timetables so that not all forms are received in time for publication. Extensive telephone follow up is undertaken each month to obtain details for respondents who have not returned forms by the due date. Despite this, it is necessary to impute responses for approximately 5% of selected units (which are, in the main, small retailers). The consequences of this imputation for data quality are also reflected, in part, in the size of the standard error.

20. *Processing errors.* Such errors may arise at any stage of processing. Editing procedures should detect significant errors at data entry stage, while all processing systems are thoroughly tested. Published tables are produced directly from 'camera-ready' computer output to avoid the possibility of clerical transcription errors at the tabulation stage.

#### Seasonally adjusted and trend estimates

21. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences can be more clearly recognised.

22. In the seasonal adjustment of the turnover estimates, account has been taken of both normal seasonal factors and 'trading-day' effects (arising from the varying length of each month and the varying numbers of Sundays, Mondays, Tuesdays, etc. in the month). For total turnover for Australia, adjustment has also been made for the effects of change in the date of Easter and Australia Day holidays. Seasonal adjustment does not remove from the series the effect of irregular influences (e.g. abnormal weather, industrial disputes) and the seasonally adjusted estimates still reflect the sampling and non-sampling errors to which the original estimates are subject.

23. The seasonally adjusted figures in this bulletin have been revised as a result of annual reanalysis of the seasonal adjustment factors for the Retail Turnover series. The reanalysis provides the most up-to-date information on seasonal, trading day and other effects. Revisions to the Australian total series and State total series appear in this publication. Revisions to the Australia by Industry trend series and the State by Industry trend series as a result of reanalysis will appear in the July publication.

24. 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 are derived by applying a 13-term Henderson-weighted moving average to the respective seasonally adjusted series. These trend series are used to analyse the underlying behaviour of the series over time.

25. 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 a negligible impact on the series. To illustrate the effect of the seasonally adjusted results on the trend series

movement, if the July seasonally adjusted result shows a +1.0 per cent movement, then the trend movement would be 0.1 per cent for July, 0.2 per cent for June and 0.1 per cent for May. A -1.0 per cent movement would return a trend movement of -0.2 per cent for July, and -0.1 per cent for June and May.

#### Coverage adjustment

26. This survey uses as its sampling frame the ABS's register of businesses which is regularly updated to take account of new businesses and businesses ceasing operation. A major source of information on new businesses is group employer (GE) registrations with the Australian Tax Office. The ABS has developed an improved computerised system which will reduce the delay in new businesses from this source being recorded on the register, while at the same time an analysis has been undertaken to identify businesses which have been omitted from the register in the past. During the time these improvements to the register were being implemented, it was necessary to temporarily suspend updating the register from GE registrations. New GE businesses were represented in the survey results for the period June 1990 to February 1991 by a small allowance (a 'new business provision') which was based on an analysis of the contribution of such units in previous periods and taking current changes to economic conditions into consideration.

27. Following the completion of the improvements to the Business Register and the analysis of previously omitted businesses the series have been revised back to April 1982. Details for prior periods not covered by the March 1991 bulletin are available from the ABS on request. At the Australia level these revisions have increased the es-

timates of turnover by approximately 4 per cent but have had no appreciable effect on the estimates of changes from previous months or years.

28. It has not yet been possible for the updating procedures of the Business Register to fully achieve the improved timetable. Consequently it has been necessary to continue to apply a small 'new business provision' for the most recent months' observations.

29. For a complete description of the improvements to the ABS' business register and the impacts of these changes on statistical series, users should refer to *Information Paper: Australian Bureau of Statistics Business Register - Recent Developments, 1991 (Catalogue no. 8130.0)*. This paper was released on 28 May 1991.

#### Related publications

30. 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.p.	not available for publication, but included in totals
ASIC r	Australian Standard Industrial Classification revised

IAN CASTLES  
Australian Statistician



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