



# AUSTRALIAN BUREAU OF STATISTICS

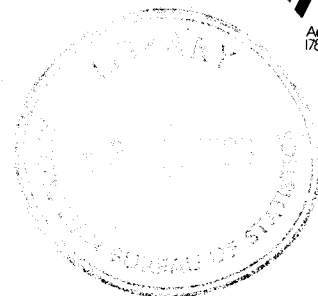
## Canberra



CATALOGUE NO. 8501.0

EMBARGOED UNTIL 11.30 A.M. 7 NOVEMBER 1988

### RETAIL TRADE AUSTRALIA, AUGUST 1988



#### PHONE INQUIRIES

- *about these statistics*—contact Maurie Low on Canberra (062) 52 5647 or any ABS State office.
- *about the constant price estimates*—contact Mr Graeme Groves on Canberra (062) 52 6807.
- *about other statistics and ABS services*—contact Information services on Canberra (062) 56 6627, 52 5402, 52 6007 or any ABS State office.

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- write to Information Services, ABS, P.O. Box 10, Belconnen, A.C.T. 2616 or any ABS State office.

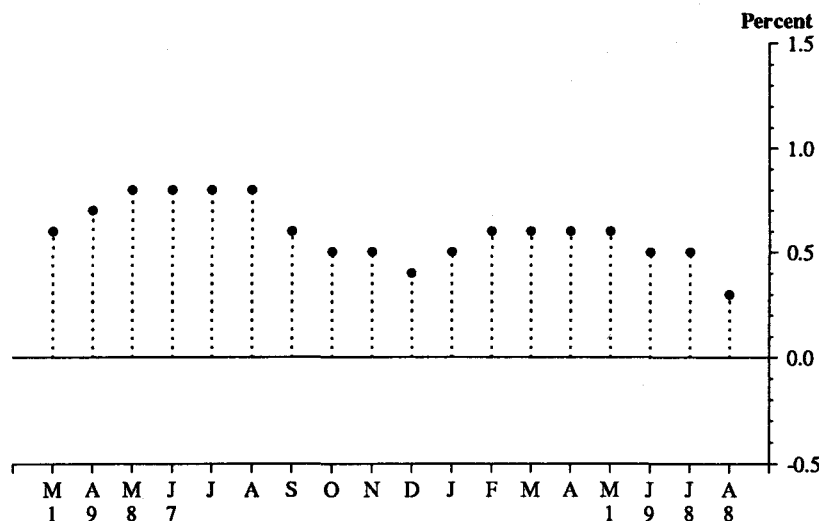
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### SUMMARY OF MAIN FINDINGS

#### TURNOVER OF RETAIL ESTABLISHMENTS, AUSTRALIA

CHART 1 : MONTHLY CHANGES IN TREND, CURRENT PRICES



*Note: This publication is the second in the series based on a new survey of retail establishments. The main changes introduced in the new survey are the reporting of "turnover" of retail establishments rather than the narrower "retail sales", the inclusion of Northern Territory in the estimates, and the basing of the survey on the results of the 1985-86 Retail Census. Data for periods prior to June 1988 have been converted to the new basis - see details in the Explanatory Notes, and in the Information Paper : Introduction of Improved Monthly Retail Trade Statistics (Catalogue No. 8511.0).*

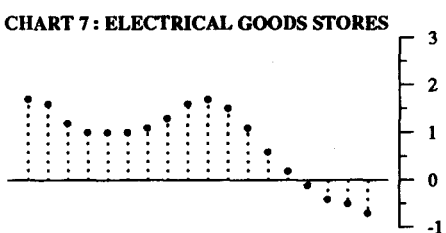
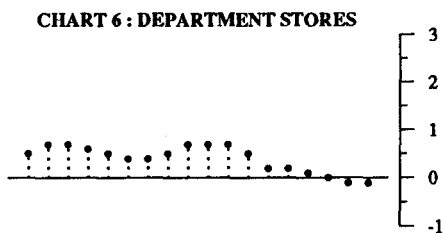
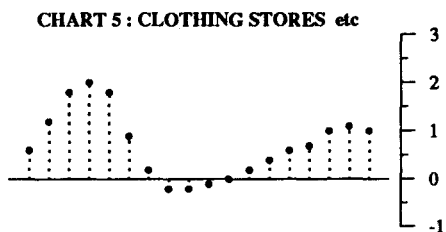
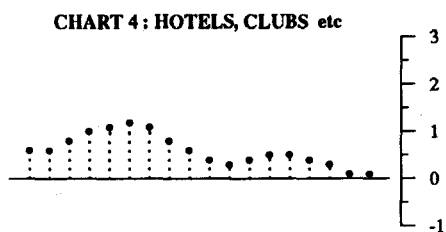
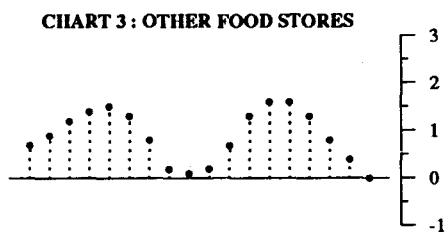
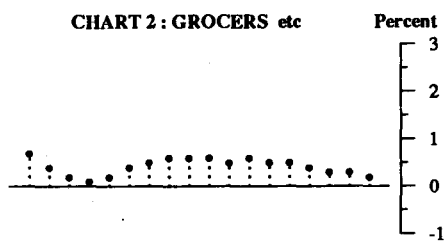
#### AUSTRALIAN ESTIMATES (see Chart 1)

The estimated monthly turnover of retail establishments in Australia in original terms (excluding motor vehicles, parts, petrol etc.) rose by 0.4% in August (from \$5847.9 million to \$5873.2 million).

Recent trend estimates, which largely remove seasonal and irregular effects, show a slowing of growth in retail trade. The average monthly trend growth over the three months ended August is 0.4%.

**TURNOVER OF RETAIL ESTABLISHMENTS  
AUSTRALIA**

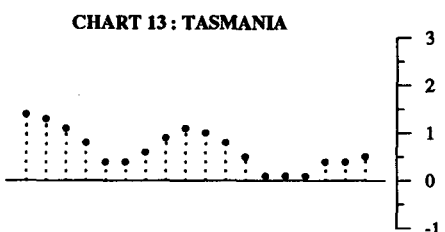
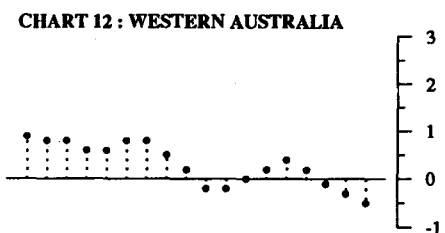
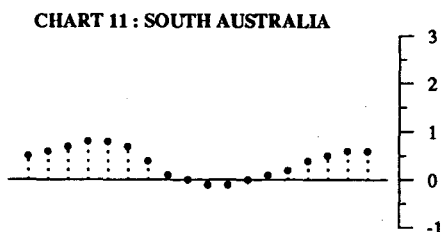
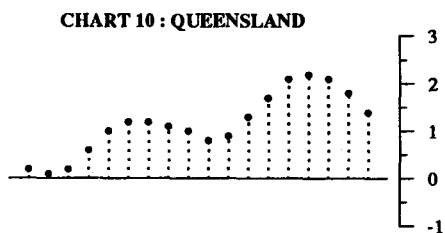
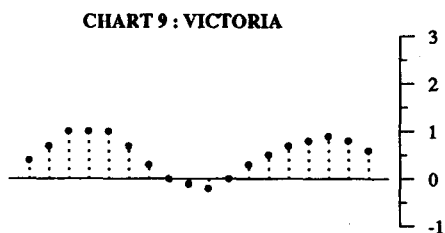
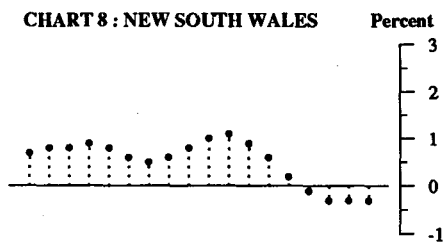
**TREND ESTIMATES, MONTHLY CHANGES  
CURRENT PRICES, SELECTED INDUSTRIES**  
Percentage change from preceding month



M A M J J A S O N D J F M A M J J A  
1 9 8 7 1 9 8 8

**TURNOVER OF RETAIL ESTABLISHMENTS**

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



M A M J J A S O N D J F M A M J J A  
1 9 8 7 1 9 8 8

**INDUSTRY ESTIMATES (see Charts 2 to 7)**

Trend estimates for recent months have shown a positive but declining rate of growth in most retail industries.

The largest retail industry, Grocers, confectioners and tobacconists has shown a modest average monthly growth of 0.3% over the three months ended August.

Five industries have an average monthly growth rate higher than one percent over the three months ended August: Butchers (1.7%); Clothing and fabric stores (1.0%); Domestic hardware stores and jewellers (1.4%); Floor coverings stores (1.4%); and Pharmacies (2.0%).

Electrical goods stores have shown a pattern of slowing monthly growth over the course of this year. The average percentage change in trend estimates over the three months ended August shows a decline of 0.5%.

**STATE ESTIMATES (see Charts 8-13)**

Trend estimates show the strong monthly growth in Queensland to be gradually decreasing. The average growth over the three months ended June was 2.1%, while over the three months ended August it reduced to 1.8%.

Since the beginning of this year growth in Retail Trade in N.S.W. has been slowing to a point where trend estimates now show an average decline over the four months ended August 1988. For the three months ended March 1988 trend estimates show an average monthly growth of 0.9%, while for the three months ended August 1988 they show an average decline of 0.3%.

Western Australia and the A.C.T. have also experienced a small decline in average trend estimates over the last three months.

Trend estimates show modest average monthly growth over the last three months for Victoria (averaging 0.8%), and South Australia (0.6%).

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

Month	Original		Seasonally adjusted		Trend estimates (c)			
	\$m	% change from preceding month	% change from corresponding month of previous year	\$m	% change from preceding month	\$m	% change from preceding month	% change from corresponding month of previous year
<b>1987</b>								
June	5,295.8	-4.3	9.5	5,616.5	2.6	5,649.8	0.8	7.4
July	5,676.4	7.2	10.0	5,800.7	3.3	5,697.5	0.8	7.4
August	5,403.2	-4.8	5.7	5,736.5	-1.1	5,742.3	0.8	7.6
September	5,584.6	3.4	8.0	5,773.1	0.6	5,777.2	0.6	7.7
October	5,916.5	5.9	7.7	5,795.3	0.4	5,804.6	0.5	7.8
November	5,878.9	-0.6	7.7	5,827.2	0.6	5,833.0	0.5	7.9
December	8,098.6	37.8	9.0	5,867.8	0.7	5,858.5	0.4	7.8
<b>1988</b>								
January	5,544.7	-31.5	4.6	5,864.3	-0.1	5,889.1	0.5	7.8
February	5,378.2	-3.0	10.4	5,895.1	0.5	5,924.6	0.6	7.9
March	5,928.6	10.2	13.6	6,071.7	3.0	5,961.1	0.6	7.9
April	5,712.6	-3.6	6.3	5,972.8	-1.6	5,998.5	0.6	7.9
May	5,888.4	3.1	6.4	5,865.5	-1.8	6,034.3	0.6	7.7
June	5,870.0	-0.3	10.8	6,233.9	6.3	6,066.5	0.5	7.4
July	r 5,847.9	r -0.4	r 3.0	r 6,107.1	r -2.0	6,093.8	0.5	7.0
August	5,873.2	0.4	8.7	6,067.4	-0.7	6,112.3	0.3	6.4
<b>Standard error (d) of</b>								
Latest month	60.5							
Change from preceding month	23.2	0.4						

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Prior to June 1988, these series reflect retail sales adjusted to a turnover basis - see paragraph 2 of Explanatory Notes. (c) Subject to revision - see paragraphs 21 to 24 of Explanatory Notes. (d) See paragraphs 8 to 11 of Explanatory Notes.

TABLE 2. TURNOVER OF RETAIL ESTABLISHMENTS,  
QUARTERLY ESTIMATES, AUSTRALIA (a) (b)

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
<b>AT CURRENT PRICES</b>						
<b>1987</b>						
June	16,203.6	5.3	6.6	16,755.1	1.7	7.0
September	16,664.2	2.8	7.9	17,310.3	3.3	8.1
December	19,894.0	19.4	8.2	17,490.3	1.0	8.0
<b>1988</b>						
March	16,851.5	-15.3	9.5	17,831.1	1.9	8.2
June	17,471.0	3.7	7.8	18,072.2	1.4	7.9
<b>AT CONSTANT (AVERAGE 1984-85) PRICES</b>						
<b>1987</b>						
June	13,477.6	3.8	-1.1	13,939.1	0.4	-0.7
September	13,679.6	1.5	0.7	14,196.0	1.8	0.9
December	16,086.5	17.6	2.1	14,172.0	-0.2	1.9
<b>1988</b>						
March	13,459.2	-16.3	3.6	14,224.1	0.4	2.4
June	13,617.6	1.2	1.0	14,089.0	-1.0	1.1

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Prior to June 1988, these series reflect retail sales adjusted to a turnover basis - see paragraph 2 of Explanatory Notes.

TABLE 3. TURNOVER OF RETAIL ESTABLISHMENTS, MONTHLY ESTIMATES BY INDUSTRY, AT CURRENT PRICES, AUSTRALIA (a) (b)

Month	Grocers, confectioners, tobacconists		Hotels, liquor stores, licensed clubs		Cafés and restaurants		Clothing and fabrics stores		Department & general stores		Domestic hardware stores, jewellers		Electrical goods stores		Furniture stores		Floor coverings stores		Pharmacies		Newsagents		Other stores		Total				
	Butchers	Other food stores	Other liquor stores	Hotels, liquor stores, licensed clubs	Cafés and restaurants	Clothing and fabrics stores	Department & general stores	Domestic hardware stores, jewellers	Electrical goods stores	Furniture stores	Floor coverings stores	Pharmacies	Newsagents	Other stores	Butchers	Other food stores	Hotels, liquor stores, licensed clubs	Cafés and restaurants	Clothing and fabrics stores	Department & general stores	Domestic hardware stores, jewellers	Electrical goods stores	Furniture stores	Floor coverings stores		Pharmacies	Newsagents	Other stores	
ORIGINAL \$ million																													
1987																													
June	1,489.3	144.1	325.4	691.3	n.p.	464.3	653.0	75.9	139.5	319.9	119.9	48.6	191.2	196.5	n.p.	5,295.8													
July	1,560.3	149.2	359.8	749.4	n.p.	508.5	701.2	81.1	148.9	329.4	135.8	53.6	196.1	214.4	n.p.	5,676.4													
August	1,529.3	143.0	348.9	743.9	n.p.	449.3	585.7	65.6	155.8	310.6	135.9	53.6	198.6	210.4	n.p.	5,403.2													
September	1,530.9	143.1	358.4	772.1	n.p.	490.5	656.8	76.7	172.0	303.4	132.3	51.9	202.3	212.2	n.p.	5,584.6													
October	1,627.8	145.6	374.2	825.4	n.p.	514.2	691.7	81.7	197.6	328.6	145.8	56.8	206.9	208.0	n.p.	5,916.5													
November	1,577.9	135.9	367.8	821.2	n.p.	502.6	728.0	75.2	213.2	340.3	131.7	61.2	205.9	206.2	n.p.	5,878.9													
December	1,893.6	163.2	415.1	1,080.3	n.p.	748.5	1,425.5	99.4	376.6	503.7	150.5	57.4	256.5	280.4	n.p.	8,098.6													
1988																													
January	1,564.9	130.2	383.1	871.3	n.p.	399.8	615.2	81.4	175.3	303.8	124.9	43.9	197.3	195.7	n.p.	5,544.7													
February	1,545.6	129.7	354.9	780.3	n.p.	419.9	538.5	72.6	174.5	314.6	125.9	53.2	189.8	215.6	n.p.	5,378.2													
March	1,694.1	142.7	379.9	845.3	n.p.	468.3	666.0	77.8	182.1	345.9	133.5	62.3	204.9	222.8	n.p.	5,928.6													
April	1,622.6	132.5	374.5	804.1	n.p.	478.0	702.5	87.3	167.5	313.6	118.5	48.8	195.5	188.8	n.p.	5,712.6													
May	1,594.4	136.2	376.2	773.5	n.p.	527.2	727.4	94.1	179.8	363.1	142.3	57.9	206.1	209.9	n.p.	5,888.4													
June	1,609.1	144.7	378.3	771.7	237.5	512.6	710.3	86.7	174.2	354.5	141.6	61.8	217.7	199.0	n.p.	5,870.0													
July	r 1,610.1	r 149.3	r 378.3	r 784.9	r 253.4	r 508.0	r 672.5	r 80.3	r 170.1	r 345.9	r 135.7	r 59.2	r 218.0	r 197.9	r 284.3	r 5,847.9													
August	1,650.5	153.9	378.8	774.4	248.4	498.6	640.7	70.2	180.4	347.1	139.6	64.5	232.8	212.1	n.p.	5,873.2													
Standard error (c) of Level	20.5	12.8	18.7	22.6	21.3	29.9	0.0	3.6	9.1	14.3	4.2	5.0	11.9	11.5	15.8	60.5													
Change	6.6	2.2	6.0	11.4	7.4	7.8	0.0	1.8	3.8	2.1	3.6	2.1	6.1	4.4	10.6	23.2													
TREND ESTIMATES (d) \$ million																													
1987																													
June	1,558.9	145.5	350.0	775.9	n.p.	485.2	698.8	76.6	179.7	317.3	127.3	51.4	198.1	215.0	n.p.	5,649.8													
July	1,561.6	145.4	355.2	784.5	n.p.	493.8	702.5	77.1	183.9	320.5	129.4	52.3	200.1	217.0	n.p.	5,697.5													
August	1,568.0	144.4	359.7	794.1	n.p.	498.4	705.5	77.2	187.2	323.7	131.1	52.8	201.6	217.5	n.p.	5,742.3													
September	1,576.1	142.8	362.4	802.9	n.p.	499.5	708.6	77.3	189.1	327.1	131.7	53.0	202.5	216.2	n.p.	5,777.2													
October	1,585.1	141.1	363.3	809.7	n.p.	498.6	712.3	77.9	189.6	331.5	131.4	53.3	203.0	214.0	n.p.	5,804.6													
November	1,594.7	139.7	363.7	814.8	n.p.	497.4	717.6	79.0	189.4	336.9	130.9	53.8	203.4	211.5	n.p.	5,833.0													
December	1,603.9	138.8	364.4	817.8	n.p.	496.7	722.7	80.7	189.3	342.6	130.6	54.5	203.5	209.5	n.p.	5,858.5													
1988																													
January	1,612.4	138.3	366.9	820.4	n.p.	496.7	727.5	82.6	190.1	347.9	131.6	55.4	203.8	208.7	n.p.	5,889.1													
February	1,621.3	138.2	371.6	823.7	n.p.	497.8	730.8	84.2	192.7	351.9	134.0	56.2	204.8	209.2	n.p.	5,924.6													
March	1,630.1	138.8	377.6	827.5	n.p.	499.9	732.3	85.0	197.0	354.1	136.8	56.8	207.2	210.5	n.p.	5,961.1													
April	1,638.2	140.1	383.7	831.6	n.p.	502.8	733.5	85.1	201.7	354.8	138.9	57.4	210.8	211.9	n.p.	5,998.5													
May	1,645.3	142.0	388.6	835.1	n.p.	506.3	734.4	84.5	205.8	354.3	139.9	58.0	215.0	212.6	n.p.	6,034.3													
June	1,651.0	144.4	391.7	837.3	n.p.	511.2	734.6	83.7	209.2	352.9	140.1	58.9	219.5	213.0	n.p.	6,066.5													
July	1,655.3	146.9	393.3	838.1	n.p.	517.0	733.8	82.8	211.9	351.1	139.7	59.7	223.9	213.1	n.p.	6,093.8													
August	1,658.7	149.3	393.3	838.6	n.p.	522.0	732.8	81.8	214.3	348.7	139.2	60.5	227.9	212.6	n.p.	6,112.3													

See footnotes at end of table.

TABLE 3. TURNOVER OF RETAIL ESTABLISHMENTS,  
MONTHLY ESTIMATES BY INDUSTRY, AT CURRENT PRICES, AUSTRALIA (a) (b)-continued

Month	Grocers, confect- ioners, tobacc- onists	Butchers	Other food stores	Hotels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores	Furni- ture stores	Floor cover- ings stores	Pharma- cies	News- agents	Other stores	Total	TREND ESTIMATES (d)											
																	% change from preceding month											
<b>1987</b>																												
June	0.1	0.4	1.4	1.0	n.p.	2.0	0.6	0.7	2.2	1.0	1.5	2.0	1.1	1.5	n.p.	0.8												
July	0.2	-0.1	1.5	1.1	n.p.	1.8	0.5	0.7	2.3	1.0	1.6	1.8	1.0	0.9	n.p.	0.8												
August	0.4	-0.7	1.3	1.2	n.p.	0.9	0.4	0.1	1.8	1.0	1.3	1.0	0.7	0.2	n.p.	0.8												
September	0.5	-1.1	0.8	1.1	n.p.	0.2	0.4	0.1	1.0	1.1	0.5	0.4	0.4	-0.6	n.p.	0.6												
October	0.6	-1.2	0.2	0.8	n.p.	-0.2	0.5	0.8	0.3	1.3	-0.2	0.6	0.2	-1.0	n.p.	0.5												
November	0.6	-1.0	0.1	0.6	n.p.	-0.2	0.7	1.4	-0.1	1.6	-0.4	0.9	0.2	-1.2	n.p.	0.5												
December	0.6	-0.6	0.2	0.4	n.p.	-0.1	0.7	2.2	-0.1	1.7	-0.2	1.3	0.0	-0.9	n.p.	0.4												
<b>1988</b>																												
January	0.5	-0.4	0.7	0.3	n.p.	0.0	0.7	2.4	0.4	1.5	0.8	1.7	0.1	-0.4	n.p.	0.5												
February	0.6	-0.1	1.3	0.4	n.p.	0.2	0.5	1.9	1.4	1.1	1.8	1.4	0.5	0.2	n.p.	0.6												
March	0.5	0.4	1.6	0.5	n.p.	0.4	0.2	1.0	2.2	0.6	2.1	1.1	1.2	0.6	n.p.	0.6												
April	0.5	0.9	1.6	0.5	n.p.	0.6	0.2	0.1	2.4	0.2	1.5	1.1	1.7	0.7	n.p.	0.6												
May	0.4	1.4	1.3	0.4	n.p.	0.7	0.1	-0.7	2.0	-0.1	0.7	1.0	2.0	0.3	n.p.	0.6												
June	0.3	1.7	0.8	0.3	n.p.	1.0	0.0	-0.9	1.7	-0.4	0.1	1.6	2.1	0.2	n.p.	0.5												
July	0.3	1.7	0.4	0.1	n.p.	1.1	-0.1	-1.1	1.3	-0.5	-0.3	1.4	2.0	0.0	n.p.	0.5												
August	0.2	1.6	0.0	0.1	n.p.	1.0	-0.1	-1.2	1.1	-0.7	-0.4	1.3	1.8	-0.2	n.p.	0.3												
<b>1987</b>																												
June	6.0	2.2	12.6	7.5	n.p.	6.8	8.9	7.1	9.9	0.5	-7.1	16.0	12.9	18.9	n.p.	7.4												
July	5.4	1.8	13.2	8.2	n.p.	8.0	7.9	5.8	11.8	0.5	-5.0	18.1	12.6	19.3	n.p.	7.4												
August	5.4	1.3	13.7	9.1	n.p.	8.7	6.8	4.6	13.0	2.1	-2.9	20.0	12.1	18.4	n.p.	7.6												
September	5.6	0.5	13.6	9.7	n.p.	8.8	6.1	4.2	13.2	5.1	-1.6	21.6	11.3	16.3	n.p.	7.7												
October	5.9	-0.3	12.8	10.0	n.p.	8.7	5.8	4.8	12.3	8.9	-1.4	22.0	10.6	13.5	n.p.	7.8												
November	6.1	-0.9	11.6	10.1	n.p.	8.4	6.0	6.2	11.2	12.6	-1.5	21.4	10.0	10.6	n.p.	7.9												
December	6.0	-1.4	10.5	9.8	n.p.	8.3	6.3	8.2	10.5	15.5	-1.1	20.0	9.5	7.8	n.p.	7.8												
<b>1988</b>																												
January	5.8	-1.8	10.2	9.5	n.p.	8.4	7.0	10.6	10.7	17.1	0.9	19.4	8.9	5.7	n.p.	7.8												
February	5.5	-2.3	10.9	9.4	n.p.	8.4	7.3	12.6	12.1	17.1	4.4	18.6	8.3	4.2	n.p.	7.9												
March	5.4	-2.6	11.8	9.3	n.p.	8.2	7.0	13.3	14.3	15.8	8.4	17.4	8.3	3.1	n.p.	7.9												
April	5.4	-2.6	12.6	9.1	n.p.	7.6	6.4	12.7	16.3	14.3	11.1	16.2	8.8	1.9	n.p.	7.9												
May	5.7	-2.0	12.6	8.7	n.p.	6.5	5.8	11.0	17.0	12.8	11.6	15.1	9.7	0.3	n.p.	7.7												
June	5.9	-0.8	11.9	7.9	n.p.	5.4	5.1	9.3	16.4	11.2	10.1	14.6	10.8	-0.9	n.p.	7.4												
July	6.0	1.0	10.7	6.8	n.p.	4.7	4.5	7.4	15.2	9.5	8.0	14.1	11.9	-1.8	n.p.	7.0												
August	5.8	3.4	9.3	5.6	n.p.	4.7	3.9	6.0	14.5	7.7	6.2	14.6	13.0	-2.3	n.p.	6.4												

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Prior to June 1988, these series reflect retail sales adjusted to a turnover basis - see paragraph 2 of Explanatory Notes. (c) The standard error of the estimates for the latest month and of the latest month from the preceding month - see paragraphs 8 to 11 of Explanatory Notes. (d) Subject to revision - see paragraphs 21 to 24 of Explanatory Notes.

TABLE 4. TURNOVER OF RETAIL ESTABLISHMENTS,  
 QUARTERLY ESTIMATES BY INDUSTRY, AT CONSTANT (AVERAGE 1984 - 85) PRICES, AUSTRALIA (a) (b)

Quarter	ORIGINAL \$ million										Total					
	Grocers, confectioners, tobacco- omists	Hotels, liquor stores, Other food stores	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores	Furni- ture stores	Floor cover- ings stores		Pharma- cies	News- agents	Other stores		
1987																
June	3,924.5	379.2	807.7	1,744.5	n.p.	1,155.4	1,640.6	196.8	364.6	807.6	288.3	116.0	480.9	465.5	n.p.	13,477.6
September	3,906.2	382.0	861.6	1,807.2	n.p.	1,155.1	1,576.3	183.5	391.9	825.5	331.2	128.5	493.3	478.5	n.p.	13,679.6
December	4,264.8	394.0	913.0	2,138.4	n.p.	1,365.6	2,267.9	206.3	646.9	1,021.7	345.9	133.3	546.3	512.7	n.p.	16,086.5
1988																
March	3,951.1	349.7	861.6	1,921.6	n.p.	995.2	1,440.8	185.5	429.6	843.0	305.4	118.7	475.0	462.9	n.p.	13,459.2
June	3,862.8	343.0	834.8	1,774.7	n.p.	1,134.8	1,654.9	207.4	418.2	891.2	312.2	121.0	489.5	421.6	n.p.	13,617.6
	SEASONALLY ADJUSTED ESTIMATES \$ million															
1987																
June	4,010.8	388.9	832.6	1,860.8	n.p.	1,149.3	1,705.9	187.8	432.7	834.3	305.6	117.9	497.6	492.6	n.p.	13,939.1
September	3,970.4	383.6	874.2	1,910.7	n.p.	1,201.9	1,710.1	192.3	464.3	843.3	328.2	126.7	499.8	494.1	n.p.	14,196.0
December	4,009.6	365.9	874.3	1,915.6	n.p.	1,143.2	1,730.6	188.5	458.1	885.3	311.0	121.0	495.4	470.7	n.p.	14,172.0
1988																
March	3,995.4	362.2	858.0	1,903.2	n.p.	1,162.8	1,723.1	203.5	473.9	922.2	323.7	129.0	498.2	459.2	n.p.	14,224.1
June	3,947.9	351.5	861.2	1,894.4	n.p.	1,128.6	1,722.8	198.4	496.5	919.4	330.2	122.4	506.4	445.8	n.p.	14,089.0
	% change from preceding quarter															
1987																
June	0.9	3.0	1.8	-1.1	n.p.	1.8	-0.1	0.3	0.3	3.1	-8.1	-0.5	2.6	4.7	n.p.	0.4
September	-1.0	-1.4	5.0	2.7	n.p.	4.6	0.2	2.4	7.3	1.1	7.4	7.5	0.4	0.3	n.p.	1.8
December	1.0	-4.6	0.0	0.3	n.p.	-4.9	1.2	-2.0	-1.3	5.0	-5.2	-4.5	-0.9	-4.7	n.p.	-0.2
1988																
March	-0.4	-1.0	-1.9	-0.6	n.p.	1.7	-0.4	8.0	3.5	4.2	4.1	6.6	0.6	-2.4	n.p.	0.4
June	-1.2	-3.0	0.4	-0.5	n.p.	-2.9	0.0	-2.5	4.8	-0.3	2.0	-5.1	1.6	-2.9	n.p.	-1.0
	% change from corresponding quarter of previous year															
1987																
June	1.6	-5.8	4.3	-3.9	n.p.	-6.1	0.9	0.9	-0.9	-6.3	-18.0	1.4	3.8	5.0	n.p.	-0.7
September	1.0	-3.8	10.4	-0.5	n.p.	1.7	-2.2	0.5	9.9	-5.5	-5.7	14.1	3.2	4.9	n.p.	0.9
December	2.7	-5.5	9.1	1.2	n.p.	-1.9	0.3	0.0	5.3	10.9	-8.4	9.8	0.2	0.1	n.p.	1.9
1988																
March	0.5	-4.1	4.9	1.2	n.p.	3.0	1.0	8.7	9.9	13.9	-2.7	8.9	2.7	-2.4	n.p.	2.4
June	-1.6	-9.6	3.4	1.8	n.p.	-1.8	1.0	5.7	14.7	10.2	8.1	3.8	1.8	-9.5	n.p.	1.1

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Prior to June 1988, these series reflect retail sales adjusted to a turnover basis - see paragraph 2 of Explanatory Notes.

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

Month	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory	Australia
	ORIGINAL \$ million								
<b>1987</b>									
June	1,838.4	1,434.0	806.1	446.3	481.4	134.2	n.p.	102.7	5,295.8
July	1,950.8	1,541.3	894.6	476.8	508.0	137.9	n.p.	110.7	5,676.4
August	1,868.2	1,460.3	847.9	455.4	484.1	130.3	n.p.	103.0	5,403.2
September	1,926.0	1,502.5	881.1	467.0	507.2	136.0	n.p.	108.9	5,584.6
October	2,029.7	1,604.9	941.1	488.6	537.4	145.2	n.p.	110.2	5,916.5
November	2,062.7	1,571.5	922.0	482.8	521.0	143.6	n.p.	113.8	5,878.9
December	2,806.0	2,217.4	1,246.5	651.9	734.6	207.5	n.p.	153.2	8,098.6
<b>1988</b>									
January	1,953.2	1,450.1	907.8	446.4	492.7	136.8	n.p.	97.2	5,544.7
February	1,890.1	1,444.7	847.8	430.9	467.9	138.1	n.p.	102.3	5,378.2
March	2,060.5	1,592.8	944.1	489.4	518.9	150.6	n.p.	110.6	5,928.6
April	1,976.7	1,548.1	902.6	456.4	519.5	141.9	n.p.	108.9	5,712.6
May	2,036.7	1,575.1	962.0	475.7	521.2	144.8	n.p.	111.8	5,888.4
June	2,002.0	1,562.8	1,003.8	474.3	512.5	145.1	61.4	108.0	5,870.0
July	r 2,005.1	r 1,528.1	r 1,029.7	r 474.6	r 499.0	r 141.5	r 61.5	r 108.4	r 5,847.9
August	1,985.1	1,570.6	1,027.4	475.9	498.8	145.5	60.6	109.3	5,873.2
Standard error (c) of Level	36.4	37.6	23.1	14.2	12.5	2.9	2.1	3.7	60.5
Change	18.1	11.0	6.9	5.4	3.1	1.1	0.4	1.6	23.2
TREND ESTIMATES (d)									
\$ million									
<b>1987</b>									
June	1,952.0	1,543.0	867.4	472.0	510.9	140.3	n.p.	106.6	5,649.8
July	1,967.1	1,557.9	876.4	475.9	514.2	140.9	n.p.	107.2	5,697.5
August	1,979.3	1,569.1	887.3	479.2	518.4	141.4	n.p.	108.2	5,742.3
September	1,989.3	1,574.4	898.0	480.9	522.3	142.2	n.p.	109.4	5,777.2
October	2,000.9	1,574.9	908.0	481.6	524.8	143.5	n.p.	110.8	5,804.6
November	2,017.1	1,573.2	916.7	481.7	525.9	145.1	n.p.	112.0	5,833.0
December	2,037.3	1,570.5	924.4	481.1	525.1	146.6	n.p.	112.8	5,858.5
<b>1988</b>									
January	2,058.7	1,570.5	932.8	480.6	524.1	147.8	n.p.	113.2	5,889.1
February	2,077.9	1,574.6	944.5	480.5	524.1	148.5	n.p.	113.1	5,924.6
March	2,090.2	1,582.3	960.7	480.8	525.4	148.7	n.p.	112.6	5,961.1
April	2,093.8	1,593.5	981.3	481.6	527.4	148.9	n.p.	111.8	5,998.5
May	2,090.8	1,606.9	1,003.3	483.4	528.6	149.1	n.p.	111.1	6,034.3
June	2,085.0	1,620.8	1,024.3	485.9	528.3	149.7	n.p.	110.6	6,066.5
July	2,078.2	1,633.8	1,042.7	488.9	526.7	150.3	n.p.	110.3	6,093.8
August	2,072.0	1,643.0	1,057.2	491.6	524.3	151.1	n.p.	110.0	6,112.3

See footnotes at end of table.



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

Month	New South Wales		Victoria	Queensland	South Australia		Western Australia	Tasmania	Northern Territory	Australian Capital Territory	Australia		
	TREND ESTIMATES (d) % change from preceding month												
<b>1987</b>													
June	0.9	1.0	1.0	0.6	0.8	0.6	0.8	0.8	n.p.	0.5	0.8		
July	0.8	1.0	0.7	1.0	0.8	0.6	0.4	0.4	n.p.	0.6	0.8		
August	0.6	0.7	1.2	1.2	0.7	0.8	0.4	0.9	n.p.	0.9	0.8		
September	0.5	0.3	1.2	1.2	0.4	0.8	0.6	0.6	n.p.	1.1	0.6		
October	0.6	0.0	1.1	1.1	0.1	0.5	0.9	0.9	n.p.	1.3	0.5		
November	0.8	-0.1	1.0	1.0	0.0	0.2	1.1	1.1	n.p.	1.1	0.5		
December	1.0	-0.2	0.8	0.8	-0.1	-0.2	1.0	1.0	n.p.	0.7	0.4		
<b>1988</b>													
January	1.1	0.0	0.9	0.9	-0.1	-0.2	0.8	0.8	n.p.	0.4	0.5		
February	0.9	0.3	1.3	1.3	0.0	0.0	0.5	0.5	n.p.	-0.1	0.6		
March	0.6	0.5	1.7	1.7	0.1	0.2	0.1	0.1	n.p.	-0.4	0.6		
April	0.2	0.7	2.1	2.1	0.2	0.4	0.1	0.1	n.p.	-0.7	0.6		
May	-0.1	0.8	2.2	2.2	0.4	0.2	0.1	0.1	n.p.	-0.6	0.6		
June	-0.3	0.9	2.1	2.1	0.5	-0.1	0.4	0.4	n.p.	-0.5	0.5		
July	-0.3	0.8	1.8	1.8	0.6	-0.3	0.4	0.4	n.p.	-0.3	0.5		
August	-0.3	0.6	1.4	1.4	0.6	-0.5	0.5	0.5	n.p.	-0.3	0.3		
					TREND ESTIMATES (d) % change from corresponding month of previous year								
<b>1987</b>													
June	8.1	6.9	5.3	5.3	4.5	10.3	9.6	9.6	n.p.	6.6	7.4		
July	7.7	7.1	6.2	6.2	5.5	10.5	8.8	8.8	n.p.	5.9	7.4		
August	7.6	7.2	7.2	7.2	6.3	10.7	8.1	8.1	n.p.	6.2	7.6		
September	7.6	7.1	8.1	8.1	6.6	10.6	8.0	8.0	n.p.	7.5	7.7		
October	7.9	6.7	8.6	8.6	6.6	10.0	8.8	8.8	n.p.	9.3	7.8		
November	8.4	6.2	8.8	8.8	6.2	9.1	10.2	10.2	n.p.	10.6	7.9		
December	9.0	5.6	8.7	8.7	5.6	7.9	11.2	11.2	n.p.	10.9	7.8		
<b>1988</b>													
January	9.6	5.3	9.1	9.1	4.9	6.7	11.5	11.5	n.p.	10.3	7.8		
February	9.9	5.3	10.1	10.1	4.4	5.8	10.8	10.8	n.p.	9.0	7.9		
March	9.8	5.4	11.8	11.8	4.0	5.1	9.4	9.4	n.p.	7.3	7.9		
April	9.1	5.4	14.1	14.1	3.6	4.6	8.1	8.1	n.p.	5.9	7.9		
May	8.0	5.2	16.4	16.4	3.2	4.1	7.1	7.1	n.p.	4.7	7.7		
June	6.8	5.0	18.1	18.1	2.9	3.4	6.7	6.7	n.p.	3.8	7.4		
July	5.6	4.9	19.0	19.0	2.7	2.4	6.7	6.7	n.p.	2.9	7.0		
August	4.7	4.7	19.1	19.1	2.6	1.1	6.9	6.9	n.p.	1.7	6.4		

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Prior to June 1988, these series reflect retail sales adjusted to a turnover basis - see paragraph 2 of Explanatory Notes. (c) The standard error of the estimates for the latest month and of the latest month from the preceding month - see paragraphs 8 to 11 of Explanatory Notes. (d) Subject to revision - see paragraphs 21 to 24 of Explanatory Notes.

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

Quarter	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australian Capital Territory	Australia
ORIGINAL \$ million									
1987									
June	4,654.5	3,655.8	2,060.0	1,142.2	1,227.7	339.1	n.p.	265.8	13,477.6
September	4,731.6	3,674.7	2,162.6	1,149.1	1,225.7	328.7	n.p.	270.3	13,679.6
December	5,601.3	4,344.9	2,516.2	1,311.7	1,440.3	397.1	n.p.	311.3	16,086.5
1988									
March	4,737.8	3,565.3	2,155.2	1,097.2	1,170.6	336.4	n.p.	253.1	13,459.2
June	4,725.8	3,618.5	2,237.2	1,099.2	1,201.0	334.4	n.p.	260.0	13,617.6
SEASONALLY ADJUSTED ESTIMATES \$ million									
1987									
June	4,830.1	3,769.9	2,149.9	1,166.1	1,270.5	350.2	n.p.	269.7	13,939.1
September	4,889.0	3,872.1	2,194.5	1,192.2	1,262.7	345.6	n.p.	272.1	14,196.0
December	4,891.4	3,814.2	2,234.0	1,167.4	1,287.3	347.8	n.p.	278.0	14,172.0
1988									
March	5,053.2	3,734.5	2,274.6	1,161.6	1,220.1	353.1	n.p.	276.3	14,224.1
June	4,904.6	3,733.1	2,335.5	1,122.5	1,243.7	345.4	n.p.	264.1	14,089.0
% change from preceding quarter									
1987									
June	0.5	0.2	-1.5	0.5	2.4	5.3	n.p.	-0.2	0.4
September	1.2	2.7	2.1	2.2	-0.6	-1.3	n.p.	0.9	1.8
December	0.0	-1.5	1.8	-2.1	1.9	0.7	n.p.	2.2	-0.2
1988									
March	3.3	-2.1	1.8	-0.5	-5.2	1.5	n.p.	-0.6	0.4
June	-2.9	0.0	2.7	-3.4	1.9	-2.2	n.p.	-4.4	-1.0
% change from corresponding quarter of previous year									
1987									
June	-0.3	-1.6	-2.7	-4.4	2.2	3.2	n.p.	2.1	-0.7
September	0.1	1.0	1.2	0.8	2.9	-0.5	n.p.	0.1	0.9
December	1.7	0.5	3.5	0.0	4.3	2.5	n.p.	5.1	1.9
1988									
March	5.2	-0.8	4.2	0.1	-1.7	6.2	n.p.	2.2	2.4
June	1.5	-1.0	8.6	-3.7	-2.1	-1.4	n.p.	-2.1	1.1

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Prior to June 1988, these series reflect retail sales adjusted to a turnover basis - see paragraph 2 of Explanatory Notes.



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

Month	Grocers, confectioners, tobacconists		Hotels, liquor stores, other food stores		Cafes and restaurants		Clothing and fabrics stores		Departmental general stores		Footwear stores		Domestic hardware stores, jewellers		Electrical goods stores		Furniture stores		Floor coverings stores		Pharmacies		News-agents		Other stores		Total
	Butchers	Other food stores	Hotels, liquor stores, other food stores	Cafes and restaurants	Clothing and fabrics stores	Departmental general stores	Footwear stores	Domestic hardware stores, jewellers	Electrical goods stores	Furniture stores	Floor coverings stores	Pharmacies	News-agents	Other stores													
VICTORIA																											
ORIGINAL \$ million																											
1987																											
June	419.9	86.1	146.4	n.p.	159.8	157.4	22.3	51.6	73.4	37.9	14.5	49.5	51.8	n.p.	1,434.0												
July	448.2	89.0	160.8	n.p.	174.1	165.9	24.5	57.5	78.8	43.2	17.9	48.3	53.5	n.p.	1,541.3												
August	428.0	88.5	159.6	n.p.	156.0	134.4	19.9	62.5	75.7	43.7	16.2	50.4	52.7	n.p.	1,460.3												
September	428.0	38.3	90.2	n.p.	162.5	153.1	20.6	70.9	70.7	43.9	16.6	50.9	53.4	n.p.	1,502.5												
October	471.1	38.6	95.1	n.p.	171.2	164.7	23.8	73.4	73.1	47.3	20.0	54.8	52.8	n.p.	1,604.9												
November	450.0	37.0	90.8	n.p.	172.8	159.0	22.3	77.1	75.1	40.1	20.5	53.3	52.1	n.p.	1,571.5												
December	550.9	43.7	108.3	n.p.	256.3	357.6	32.0	132.2	115.7	46.9	18.0	68.9	72.6	n.p.	2,217.4												
1988																											
January	439.0	33.6	91.5	n.p.	127.9	145.3	23.5	60.9	69.4	36.6	10.8	50.8	52.1	n.p.	1,450.1												
February	442.7	35.0	91.3	n.p.	145.1	120.6	23.2	69.5	70.4	36.9	15.3	49.7	49.6	n.p.	1,444.7												
March	484.5	38.6	97.1	n.p.	159.5	159.6	23.4	69.0	74.5	37.1	18.2	56.5	51.8	n.p.	1,592.8												
April	456.5	37.9	99.9	n.p.	165.8	170.1	27.0	63.7	72.4	34.6	16.2	50.8	46.5	n.p.	1,548.1												
May	445.6	38.9	92.4	n.p.	185.2	175.2	29.9	67.2	82.5	42.2	18.7	53.2	49.9	n.p.	1,575.1												
June	451.2	40.9	94.6	n.p.	177.7	175.6	26.0	63.9	80.6	40.1	18.1	54.8	47.2	n.p.	1,562.8												
July	452.5	39.2	r 89.0	r 64.9	r 173.0	r 151.5	r 22.8	r 65.6	79.1	r 37.6	14.8	52.4	r 44.6	r 75.2	r 1,528.1												
August	471.0	40.9	94.4	64.5	178.2	148.2	18.9	68.5	79.7	42.8	15.8	58.7	48.9	n.p.	1,570.6												
Standard error (c) of Level	12.5	8.1	10.5	11.3	25.5	0.0	2.0	5.9	2.3	2.4	1.3	5.6	7.1	7.8	37.6												
Change	4.3	1.6	3.1	2.2	4.9	0.0	1.4	3.3	1.0	3.2	1.0	4.5	1.5	2.8	11.0												
TREND ESTIMATES (d)																											
\$ million																											
1988																											
March	459.5	37.7	96.0	172.8	167.7	173.1	26.0	71.0	79.2	39.7	16.7	54.9	50.5	n.p.	1,582.3												
April	460.2	38.5	97.1	173.2	170.3	173.3	25.9	72.9	79.1	40.7	17.1	55.5	50.6	n.p.	1,593.5												
May	462.5	39.2	97.6	174.2	173.8	173.1	25.4	74.7	79.0	41.4	17.4	55.8	50.7	n.p.	1,606.9												
June	466.1	39.8	97.6	175.7	178.0	172.5	24.7	76.3	79.0	41.8	17.4	56.0	50.8	n.p.	1,620.8												
July	470.6	40.4	97.2	177.5	182.3	171.4	23.8	77.6	79.0	42.0	17.3	56.4	50.9	n.p.	1,633.8												
August	474.5	40.7	96.5	179.3	185.7	170.1	22.9	78.5	79.0	42.0	16.9	57.0	51.1	n.p.	1,643.0												
% change from preceding month																											
1988																											
March	0.0	1.6	1.6	-0.1	0.8	0.1	1.6	2.0	0.0	2.8	2.5	1.3	0.0	n.p.	0.5												
April	0.2	2.1	1.1	0.2	1.6	0.1	-0.4	2.7	-0.1	2.5	2.4	1.1	0.2	n.p.	0.7												
May	0.5	1.8	0.5	0.6	2.1	-0.1	-1.9	2.5	-0.1	1.7	1.8	0.5	0.2	n.p.	0.8												
June	0.8	1.5	0.0	0.9	2.4	-0.3	-2.8	2.1	0.0	1.0	0.0	0.4	0.2	n.p.	0.9												
July	1.0	1.5	-0.4	1.0	2.4	-0.6	-3.6	1.7	0.0	0.5	-0.6	0.7	0.2	n.p.	0.8												
August	0.8	0.7	-0.7	1.0	1.9	-0.8	-3.8	1.2	0.0	0.0	-2.3	1.1	0.4	n.p.	0.6												

See footnotes at end of table.

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

Month	Grocers, confectioners, tobacconists		Hotels, liquor stores, licensed clubs		Cafes and restaurants		Clothing and fabrics stores		Department & general stores		Domestic hardware stores, jewellers		Electrical goods stores		Furniture stores		Floor coverings stores		Pharmacies		Newsagents		Other stores		Total
	Butchers	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	Other food stores	
QUEENSLAND																									
ORIGINAL \$ million																									
1987																									
June	236.6	25.5	44.2	113.2	n.p.	71.6	89.5	12.8	17.4	52.3	17.1	6.1	27.6	30.3	n.p.	806.1									
July	250.4	28.3	56.9	122.3	n.p.	89.7	98.6	14.6	16.3	56.9	19.6	8.3	30.6	32.6	n.p.	894.6									
August	245.2	25.9	52.7	121.7	n.p.	79.2	82.2	12.6	16.3	52.8	20.3	6.8	31.1	32.2	n.p.	847.9									
September	242.8	25.4	54.8	122.5	n.p.	90.5	97.4	14.8	17.8	54.6	19.7	7.9	30.5	33.9	n.p.	881.1									
October	261.3	27.5	58.4	130.0	n.p.	94.0	101.9	15.0	20.1	60.6	24.4	6.7	31.0	31.0	n.p.	941.1									
November	251.1	25.8	58.9	129.1	n.p.	84.0	98.4	12.7	23.1	69.3	18.0	8.3	29.6	33.6	n.p.	922.0									
December	293.2	30.2	65.9	164.1	n.p.	124.4	205.8	17.7	43.1	91.5	20.7	7.0	38.0	47.7	n.p.	1,246.5									
1988																									
January	255.1	24.4	62.8	127.5	n.p.	68.8	98.3	18.3	20.1	59.7	22.7	7.3	27.2	35.4	n.p.	907.8									
February	249.0	24.2	55.5	118.3	n.p.	69.6	73.5	12.8	17.3	61.8	20.3	7.8	27.4	34.4	n.p.	847.8									
March	271.1	28.4	59.4	132.2	n.p.	77.9	95.8	15.3	19.0	71.1	21.8	9.7	30.7	33.5	n.p.	944.1									
April	264.3	25.0	58.0	123.8	n.p.	74.1	104.4	16.0	18.1	55.8	19.2	7.4	27.6	29.8	n.p.	902.6									
May	260.3	26.8	65.4	132.0	n.p.	83.0	105.0	17.8	20.6	63.5	20.6	10.0	31.3	34.2	n.p.	962.0									
June	265.5	29.3	67.9	131.8	41.8	90.2	113.0	19.3	24.4	68.9	23.2	10.3	31.8	32.7	n.p.	1,003.8									
July	277.4	r 31.1	r 70.1	r 134.4	r 45.1	r 101.2	r 101.4	16.6	24.8	r 65.1	23.3	11.2	31.2	36.8	r 59.9	r 1,029.7									
August	276.6	33.1	67.4	134.9	45.4	95.9	100.3	16.2	25.9	65.9	23.9	10.6	31.7	42.0	57.6	1,027.4									
Standard error (c) of Level	8.4	4.3	5.4	10.0	10.6	9.8	0.0	1.4	1.9	3.8	1.8	1.8	5.2	5.6	5.0	23.1									
Change	1.9	1.1	1.8	2.0	1.6	4.7	0.0	0.3	0.7	1.6	0.5	0.7	0.6	1.8	2.0	6.9									
TREND ESTIMATES (d)																									
\$ million																									
1988																									
March	262.6	27.0	60.8	132.6	n.p.	84.3	108.4	16.9	21.3	67.4	22.8	8.4	30.9	34.1	n.p.	960.7									
April	266.1	27.8	63.4	134.8	n.p.	85.9	109.9	17.1	22.9	67.4	23.0	8.9	31.5	34.4	n.p.	981.3									
May	269.8	28.7	66.2	136.5	n.p.	88.3	111.5	17.1	24.9	67.3	22.7	9.4	31.9	35.2	n.p.	1,003.3									
June	273.2	29.7	68.6	137.7	n.p.	91.3	112.9	17.1	27.1	67.2	22.4	10.0	32.0	36.5	n.p.	1,024.3									
July	276.2	30.7	70.5	138.4	n.p.	94.6	114.1	17.1	29.2	67.0	22.1	10.6	32.0	38.0	n.p.	1,042.7									
August	278.4	31.5	71.9	138.8	n.p.	97.4	115.3	17.0	31.0	66.6	22.1	11.2	31.9	39.4	n.p.	1,057.2									
% change from preceding month																									
1988																									
March	1.1	2.3	3.2	1.6	n.p.	0.8	1.3	1.8	3.9	0.6	1.8	5.0	2.3	-0.3	n.p.	1.7									
April	1.3	3.0	4.3	1.7	n.p.	1.9	1.4	1.2	7.5	0.0	0.9	6.0	1.9	0.9	n.p.	2.1									
May	1.4	3.2	4.4	1.3	n.p.	2.8	1.5	0.0	8.7	-0.1	-1.3	5.6	1.3	2.3	n.p.	2.2									
June	1.3	3.5	3.6	0.9	n.p.	3.4	1.3	0.0	8.8	-0.1	-1.3	6.4	0.3	3.7	n.p.	2.1									
July	1.1	3.4	2.8	0.5	n.p.	3.6	1.1	0.0	7.7	-0.3	-1.3	6.0	0.0	4.1	n.p.	1.8									
August	0.8	2.6	2.0	0.3	n.p.	3.0	1.1	-0.6	6.2	-0.6	0.0	5.7	-0.3	3.7	n.p.	1.4									

See footnotes at end of table.

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

Month	Grocers,		Hotels,		Cafes and restaurants	Clothing and fabrics stores	Department & general stores	Footwear stores	Domestic hardware stores, jewellers	Electrical goods stores	Furniture stores	Floor coverings stores	Pharmacies	Newsagents	Other stores	Total
	confectionists, tobaccos	meats	liquor stores, licensed clubs	Other food stores												
SOUTH AUSTRALIA																
ORIGINAL \$ million																
1987																
June	141.5	10.7	49.3	31.4	n.p.	27.1	69.5	5.3	6.4	31.4	14.5	3.2	13.7	10.8	n.p.	446.3
July	148.7	9.9	52.9	35.6	n.p.	29.2	75.9	5.9	6.5	34.3	14.0	3.5	14.2	10.7	n.p.	476.8
August	144.0	10.0	53.2	34.7	n.p.	26.1	66.1	5.2	7.2	32.5	13.1	3.9	14.1	10.9	n.p.	455.4
September	144.0	10.1	54.0	35.2	n.p.	28.8	69.8	6.0	6.9	30.5	13.5	3.6	15.0	11.0	n.p.	467.0
October	147.7	10.0	59.7	39.1	n.p.	28.2	77.8	6.3	8.6	33.3	13.1	4.2	14.5	10.1	n.p.	488.6
November	140.8	9.8	60.2	35.2	n.p.	28.6	81.1	5.7	9.8	33.4	12.0	4.0	14.8	10.5	n.p.	482.8
December	170.0	12.3	81.9	40.7	n.p.	41.6	138.9	6.4	17.9	44.3	14.0	4.2	17.7	13.0	n.p.	651.9
1988																
January	135.8	8.1	64.0	35.1	n.p.	21.4	68.2	5.3	7.4	28.4	9.6	3.1	14.3	8.8	n.p.	446.4
February	132.7	8.4	55.6	30.3	n.p.	23.8	56.7	5.2	8.3	32.4	10.9	4.2	13.4	10.8	n.p.	430.9
March	152.8	9.4	61.5	34.0	n.p.	28.2	70.6	6.6	8.5	35.9	11.8	4.5	13.9	12.3	n.p.	489.4
April	141.9	8.3	55.4	33.5	n.p.	27.8	71.0	7.1	7.9	29.1	9.9	4.0	13.6	9.6	n.p.	456.4
May	142.1	8.7	53.2	33.4	n.p.	30.4	76.2	7.7	8.9	35.0	13.1	4.4	14.1	10.5	n.p.	475.7
June	144.8	9.4	54.0	34.3	n.p.	29.4	71.0	7.3	8.7	34.6	14.1	4.3	15.3	10.4	n.p.	474.3
July	r 143.8	9.8	r 53.4	r 35.6	r 17.2	r 28.7	r 71.1	6.7	8.0	r 37.2	13.4	3.8	15.0	10.8	r 20.0	r 474.6
August	148.9	10.5	52.4	34.4	17.2	26.9	67.3	6.0	9.4	36.3	13.7	4.2	16.6	11.0	21.1	475.9
Standard error (c) of	6.2	1.1	3.6	4.0	4.1	2.8	0.0	0.5	0.9	9.2	1.2	0.4	1.5	0.6	4.5	14.2
Level	1.7	0.4	2.3	2.0	3.3	1.4	0.0	0.3	0.5	2.1	0.5	0.3	0.3	0.5	2.8	5.4
Change																
TREND ESTIMATES (d)																
\$ million																
1988																
March	143.7	8.7	58.5	34.3	n.p.	28.2	76.8	6.3	9.5	34.0	11.6	4.4	14.6	10.7	n.p.	480.8
April	144.2	8.8	58.2	35.0	n.p.	28.7	75.5	6.6	9.6	34.5	11.8	4.5	14.7	10.7	n.p.	481.6
May	145.0	9.0	58.0	35.6	n.p.	29.2	74.5	6.8	9.7	35.0	12.1	4.4	14.9	10.7	n.p.	483.4
June	145.9	9.4	58.0	36.1	n.p.	29.4	73.9	6.9	9.7	35.6	12.5	4.3	15.1	10.7	n.p.	485.9
July	146.9	9.8	58.0	36.4	n.p.	29.5	73.5	7.0	9.8	36.1	12.9	4.2	15.4	10.7	n.p.	488.9
August	147.9	10.1	58.0	36.6	n.p.	29.4	73.7	7.0	9.8	36.6	13.3	4.0	15.6	10.7	n.p.	491.6
% change from preceding month																
1988																
March	0.2	-2.2	-0.8	1.5	n.p.	2.2	-1.8	3.3	2.2	1.5	0.0	4.8	0.0	0.0	n.p.	0.1
April	0.3	1.1	-0.5	2.0	n.p.	1.8	-1.7	4.8	1.1	1.5	1.7	2.3	0.7	0.0	n.p.	0.2
May	0.6	2.3	-0.3	1.7	n.p.	1.7	-1.3	3.0	1.0	1.4	2.5	-2.2	1.4	0.0	n.p.	0.4
June	0.6	4.4	0.0	1.4	n.p.	0.7	-0.8	1.5	0.0	1.7	3.3	-2.3	1.3	0.0	n.p.	0.5
July	0.7	4.3	0.0	0.8	n.p.	0.3	-0.5	1.4	1.0	1.4	3.2	-2.3	2.0	0.0	n.p.	0.6
August	0.7	3.1	0.0	0.5	n.p.	-0.3	0.3	0.0	0.0	1.4	3.1	-4.8	1.3	0.0	n.p.	0.6

See footnotes at end of table.



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

Month	Grocers, confectioners, tobacco- onists	Butchers	Other food stores	Hotels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores	Furni- ture stores	Floor cover- ings stores	Pharma- cies	News- agents	Other stores	Total
ORIGINAL \$ million																
1987																
June	39.7	4.0	7.7	16.7	n.p.	11.2	15.6	2.5	3.7	9.0	2.6	1.4	5.1	4.2	n.p.	134.2
July	42.3	4.4	7.0	18.3	n.p.	11.9	15.6	2.8	3.0	8.2	2.4	1.3	5.7	4.9	n.p.	137.9
August	41.6	4.1	6.8	17.5	n.p.	9.0	14.6	2.3	2.9	7.2	2.4	1.4	5.6	4.7	n.p.	130.3
September	42.9	4.2	7.0	18.2	n.p.	9.8	16.3	2.5	2.5	7.5	2.3	1.3	5.2	4.8	n.p.	136.0
October	46.8	4.2	7.2	20.6	n.p.	10.2	16.0	2.7	2.5	7.4	2.8	1.6	5.7	5.1	n.p.	145.2
November	43.9	4.0	7.3	19.3	n.p.	11.0	17.5	2.5	2.6	8.4	2.6	1.7	5.5	5.1	n.p.	143.6
December	54.1	4.6	8.2	26.7	n.p.	17.8	36.0	3.7	6.2	12.4	3.4	1.8	7.8	7.5	n.p.	207.5
1988																
January	46.4	3.3	8.1	19.7	n.p.	8.8	14.1	2.4	2.3	6.9	2.0	1.0	5.1	4.9	n.p.	136.8
February	45.4	3.3	7.0	18.1	n.p.	11.8	13.3	3.3	2.4	8.0	2.6	1.4	5.1	5.0	n.p.	138.1
March	49.7	3.7	7.6	21.2	n.p.	10.5	16.1	2.7	2.5	8.6	3.1	1.6	5.8	5.6	n.p.	150.6
April	46.8	3.2	7.1	19.3	n.p.	10.3	16.9	3.1	2.5	7.4	2.6	1.1	5.2	4.9	n.p.	141.9
May	46.0	3.3	7.1	18.2	n.p.	11.4	16.6	3.3	2.6	9.5	3.0	1.4	5.8	5.0	n.p.	144.8
June	46.1	3.6	7.0	18.1	2.5	11.1	17.2	2.8	2.5	9.9	3.3	1.2	5.8	5.2	8.7	145.1
July	46.5	3.7	7.8	18.1	2.2	r 10.6	r 14.3	2.6	2.5	r 9.5	3.3	1.1	6.1	4.9	8.4	r 141.5
August	47.3	3.9	7.6	18.0	2.4	11.3	14.8	2.3	2.6	9.4	2.7	1.2	5.9	5.3	10.7	145.5
Standard error (c) of																
Level	0.9	0.5	0.8	1.0	0.6	0.6	0.0	0.2	0.3	1.5	0.3	0.1	0.6	0.7	1.2	2.9
Change	0.3	0.2	0.6	0.3	0.3	0.3	0.0	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.5	1.1
TREND ESTIMATES(d)																
\$ million																
1988																
March	47.9	3.5	7.5	19.7	n.p.	11.0	17.3	2.9	2.8	9.0	2.9	1.4	5.7	5.1	n.p.	148.7
April	48.0	3.5	7.4	19.8	n.p.	10.9	17.3	2.9	2.8	9.1	2.9	1.4	5.7	5.2	n.p.	148.9
May	47.9	3.5	7.4	19.8	n.p.	10.9	17.3	2.9	2.9	9.2	3.0	1.3	5.9	5.2	n.p.	149.1
June	47.8	3.6	7.5	19.8	n.p.	11.1	17.2	2.8	2.9	9.3	3.0	1.3	6.0	5.3	n.p.	149.7
July	47.6	3.7	7.5	19.8	n.p.	11.4	17.1	2.8	3.0	9.4	3.0	1.2	6.1	5.4	n.p.	150.3
August	47.6	3.8	7.6	19.7	n.p.	11.7	17.0	2.7	3.1	9.5	3.0	1.1	6.2	5.5	n.p.	151.1
% change from preceding month																
1988																
March	0.6	0.0	0.0	1.0	n.p.	-0.9	-0.6	0.0	3.7	2.3	3.6	0.0	1.8	0.0	n.p.	0.1
April	0.2	0.0	-1.3	0.5	n.p.	-0.9	0.0	0.0	0.0	1.1	0.0	0.0	0.0	2.0	n.p.	0.1
May	-0.2	0.0	0.0	0.0	n.p.	0.0	0.0	0.0	3.6	1.1	3.4	-7.1	3.5	0.0	n.p.	0.1
June	-0.2	2.9	1.4	0.0	n.p.	1.8	-0.6	-3.4	0.0	1.1	0.0	0.0	1.7	1.9	n.p.	0.4
July	-0.4	2.8	0.0	0.0	n.p.	2.7	-0.6	0.0	3.4	1.1	0.0	-7.7	1.7	1.9	n.p.	0.4
August	0.0	2.7	1.3	-0.5	n.p.	2.6	-0.6	-3.6	3.3	1.1	0.0	-8.3	1.6	1.9	n.p.	0.5

See footnotes at end of table.



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

Month	AUSTRALIAN CAPITAL TERRITORY										Total				
	Grocers, confectioners, tobacconists	Butchers	Other food stores	Hotels, liquor stores, licensed clubs	Cafes and rest- aurants	Clothing and fabrics stores	Depart- ment & general stores	Footwear stores	Domestic hardware stores, jewellers	Elec- trical goods stores		Furni- ture stores	Floor cover- ings stores	Pharma- cies	News- agents
ORIGINAL \$ million															
1987															
June	25.4	1.7	6.5	9.8	n.p.	8.1	15.1	0.9	2.3	8.1	2.8	1.6	2.9	4.0	n.p.
July	26.2	2.0	6.8	11.9	n.p.	9.2	16.4	0.9	2.7	9.4	3.3	1.6	3.1	4.3	n.p.
August	24.9	1.8	6.2	12.7	n.p.	7.9	12.3	0.6	2.7	9.4	3.2	1.2	3.1	4.3	n.p.
September	26.0	2.0	6.8	14.0	n.p.	8.1	13.5	0.9	2.9	8.7	3.1	1.4	3.1	4.7	n.p.
October	27.2	1.5	6.6	10.6	n.p.	9.5	14.0	0.8	3.5	8.1	3.3	1.2	3.1	4.8	n.p.
November	27.1	1.5	6.8	14.0	n.p.	8.4	18.9	0.9	3.7	6.3	3.4	1.4	3.1	4.6	n.p.
December	30.8	1.7	7.1	16.3	n.p.	12.0	33.3	0.9	7.6	9.6	3.7	0.9	3.4	7.3	n.p.
1988															
January	25.5	1.4	6.5	11.7	n.p.	7.4	13.1	1.0	3.1	4.9	2.7	0.9	2.6	3.7	n.p.
February	25.3	1.5	5.8	13.4	n.p.	9.0	13.4	0.9	3.1	5.8	3.0	1.1	2.6	4.7	n.p.
March	26.5	1.5	6.1	13.7	n.p.	9.0	14.7	0.9	3.4	6.1	3.7	1.1	3.0	6.6	n.p.
April	26.5	1.6	6.1	12.7	n.p.	9.1	16.5	1.1	3.2	6.1	3.0	1.1	2.9	5.0	n.p.
May	26.0	1.5	6.6	12.4	n.p.	10.1	16.8	1.1	3.4	7.0	3.5	1.4	3.1	5.6	n.p.
June	26.1	1.7	5.8	12.4	n.p.	9.1	15.1	1.0	2.9	7.4	3.6	1.4	3.1	4.9	n.p.
July	r 26.4	1.7	r 6.9	12.5	r 8.3	r 9.5	r 15.1	0.9	2.9	6.6	3.4	1.3	3.0	4.8	r 5.1
August	26.6	1.8	6.5	12.7	9.3	9.0	13.5	0.8	2.9	6.7	3.9	1.6	3.2	5.2	5.7
Standard error (c) of															
Level	1.0	0.3	1.0	1.6	1.6	1.6	0.0	0.0	0.2	1.6	0.8	0.1	0.3	0.4	0.9
Change	1.1	0.0	0.7	0.3	0.3	0.5	0.0	0.0	0.1	0.4	0.1	0.1	0.1	0.2	0.3
TREND ESTIMATES(d) \$ million															
1988															
March	26.4	1.6	6.7	13.4	n.p.	9.5	16.8	1.0	3.9	6.4	2.9	1.1	3.0	5.4	n.p.
April	26.3	1.6	6.7	13.1	n.p.	9.3	16.5	1.0	3.9	6.5	2.9	1.2	3.1	5.4	n.p.
May	26.2	1.6	6.7	12.9	n.p.	9.1	16.2	1.0	3.9	6.5	3.0	1.2	3.1	5.4	n.p.
June	26.3	1.6	6.6	12.8	n.p.	8.9	16.0	0.9	3.7	6.5	3.0	1.3	3.2	5.4	n.p.
July	26.5	1.6	6.4	12.7	n.p.	8.9	15.9	0.9	3.6	6.5	3.0	1.4	3.1	5.3	n.p.
August	26.7	1.7	6.2	12.6	n.p.	8.8	15.8	0.9	3.5	6.5	3.0	1.4	3.1	5.2	n.p.
% change from preceding month															
1988															
March	-0.8	0.0	1.5	0.0	n.p.	-2.1	-1.8	0.0	2.6	0.0	3.6	0.0	3.4	1.9	n.p.
April	-0.4	0.0	0.0	-2.2	n.p.	-2.1	-1.8	0.0	0.0	1.6	0.0	9.1	3.3	0.0	n.p.
May	-0.4	0.0	0.0	-1.5	n.p.	-2.2	-1.8	0.0	0.0	0.0	3.4	0.0	0.0	0.0	n.p.
June	0.4	0.0	-1.5	-0.8	n.p.	-2.2	-1.2	-10.0	-5.1	0.0	0.0	8.3	3.2	0.0	n.p.
July	0.8	0.0	-3.0	-0.8	n.p.	0.0	-0.6	0.0	-2.7	0.0	0.0	7.7	-3.1	-1.9	n.p.
August	0.8	6.3	-3.1	-0.8	n.p.	-1.1	-0.6	0.0	-2.8	0.0	0.0	0.0	0.0	-1.9	n.p.

(a) Excludes motor vehicle dealers, petrol stations, etc. (b) Prior to June 1988, these series reflect retail sales adjusted to a turnover basis - see paragraph 2 of Explanatory Notes. (c) The standard error of the estimates for the latest month and of the latest month from the preceding month - see paragraphs 8 to 11 of Explanatory Notes. (d) Subject to revision - see paragraphs 21 to 24 of Explanatory Notes.

TABLE 8. TURNOVER OF RETAIL 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
<b>1988</b>						
June	43.9		17.4		61.4	
July	r 43.3	r -1.4	r 18.1	r 4.0	r 61.5	r 0.2
August	44.4	-1.1	16.1	-10.6	60.6	r -3.7
<b>Standard error (c) of</b>						
Level	2.1		0.4		2.1	
Change	0.5		0.2		0.4	

Note: Series is not long enough to provide sufficient information to allow reliable seasonal adjustment estimates. (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 8 to 11 of Explanatory Notes.

## EXPLANATORY NOTES

### Introduction

1. 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. Alternatively, the factors contained in the Attachment can be applied to historical data to link them to the new survey. 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', (Catalogue no. 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 in-scope 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 \$25.3 million (0.4 per cent) in the total value of turnover between July 1988 and August 1988 has a standard error of about \$23.2 million (0.4 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 \$2.1 million to \$48.5 million (0.0 per cent to 0.8 per cent) and nineteen chances in twenty that the change would be within -\$21.1 million to \$71.7 million (-0.4 per cent to 1.2 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. 1

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1 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-employed 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.

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 smoothing of seasonally adjusted series to create trend estimates is a means of reducing the impact of the irregular component of the series. 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.

24. Users may wish to refer to the ABS Information Papers *A Guide to Smoothing Time Series - Estimates of 'Trend'* (1316.0) and *Time Series Decomposition - An Overview* (1317.0) for more detailed information on smoothing seasonally adjusted time series data.

#### Related publications

25. Current publications produced by the ABS are listed in the *Catalogue of Publications, 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 Australian Standard Industrial Classification.

**Electronic services**

**VIATEL.** Key \*656# for selected current economic, social and demographic statistics.

**AUSSTATS.** Thousands of up-to-date time series are available on this ABS on-line service through CSIRONET.

For further information phone the AUSSTATS Help Desk on (062) 52 6017.

**TELESTATS.** This service provides foreign trade statistics tailored to users' requirements.

Further information is available on (062) 52 5404.

**Floppy disk service**

Selected ABS services are available on floppy disk. Further information is available on (062) 52 6684.

**IAN CASTLES**  
**Australian Statistician**

## ATTACHMENT

## FACTORS LINKING FORMER SURVEY TO NEW RETAIL TRADE SURVEY

Industry	NSW	Vic	Qld	SA	WA	Tas	ACT	Aust(a)
Grocers, confectioners, tobacconists	0.96	1.04	0.92	1.03	1.10	0.93	0.95	1.01
Butchers	0.75	0.89	1.26	1.21	1.45	0.95	0.81	0.92
Other food stores	1.07	1.00	0.96	1.32	1.01	1.13	1.41	1.06
Hotels, liquor stores, licensed clubs	1.60	1.35	1.20	1.27	1.01	1.24	1.63	1.40
Clothing and fabrics stores	0.95	1.23	1.33	0.97	0.98	1.02	1.38	1.11
Department and general stores	1.09	1.28	1.15	1.24	1.16	1.08	1.06	1.17
Footwear stores	0.77	0.95	1.16	0.78	0.89	1.33	0.71	0.92
Domestic hardware stores, jewellers	1.31	1.56	1.18	0.96	1.47	1.19	1.61	1.36
Electrical goods stores	1.27	1.01	1.35	1.45	1.49	1.27	1.80	1.26
Furniture stores	0.89	1.16	1.30	1.41	1.07	1.06	0.95	1.09
Floor coverings stores	0.80	1.02	0.76	0.91	1.31	0.71	1.56	0.90
Pharmacies	0.87	1.02	0.97	0.87	1.36	1.14	1.15	0.97
Newsagents	1.12	1.43	1.01	1.30	1.07	0.91	1.07	1.17
Cafes and restaurants (Other stores) (b)	1.92	2.20	1.87	2.48	1.69	1.87	2.19	2.01
<b>Total (all industries)</b>	<b>1.12</b>	<b>1.18</b>	<b>1.12</b>	<b>1.18</b>	<b>1.15</b>	<b>1.08</b>	<b>1.23</b>	<b>1.15</b>

(a)Link factors for Australia reflect the inclusion of the N.T. in the new survey. (b)The new series 'Cafes and restaurants' was previously included in 'Other stores'. Link factors are provided for the combination of these two industries.

*NOTE: The link factors are a combination of the conceptual and methodological differences between the old and new series, and they are subject to sampling variability. For a more extensive description, see the Information Paper 'Introduction Of Improved Monthly Retail Trade Statistics', (Catalogue No. 8511.0).*

